### **SERVICE MANUAL**

### **BG-1S** CHASSIS

MODEL

COMMANDER DEST.

CHASSIS NO.

MODEL

COMMANDER DEST. CHASSIS NO.

KV-T29SF8

RM-870 Australia

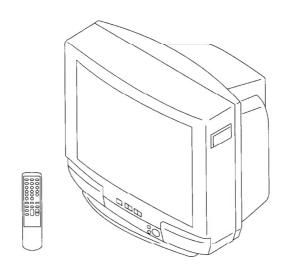
SCC-J99E-A

KV-T29SF81 RM-870 New Zealand SCC-K37D-A

KV-T29SZ8

RM-870 Australia

SCC-J99D-A







### **SPECIFICATIONS**

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G	
Color system	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	
Stereo system	A2 Stereo (German) B/G	KV-T29SZ8 only
Teletext language	English, German, Swedish, Italian, French, Spanish	KV-T29SF81 only
Channel coverage	VHF: 1 to 11/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	New Zealand only
	VHF: 0 to 12, 5A, 6A/UHF: 28 to 69/CATV: S01 to S03, S1 to S41	Australia only
Audio output (speaker)	5W × 2	
Inputs	Antenna: 75 ohms	
	VIDEO IN jacks: phono jacks	
	Video: 1 Vp-p, 75 ohms	
	Audio: 500 mVrms, high impedance	
Outputs	Headphone jack: minijack	
	MONITOR OUT jacks: phono jacks	
	Video: 1 Vp-p, 75 ohms	
	Audio: 500 mVrms	
Picture tube	29 in.	
Tube size (cm)	72	Measured diagonally
Screen size (cm)	68	Measured diagonally
Dimensions (w/h/d, mm)	686 × 617 × 537	
Mass (kg)	43	

Design and specifications are subject to change without notice.

### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

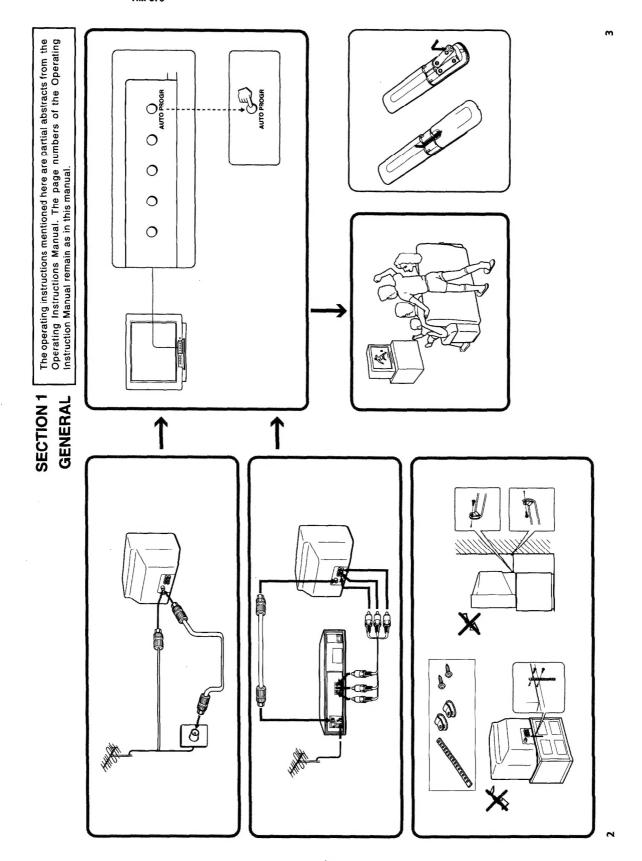
### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

### KV-T29SF8/T29SF81/T29SZ8 RM-870

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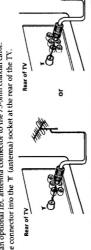


Getting Started

## Connections

## Connecting a VHF antenna or a combination VHF/UHF antenna - 75-ohm coaxial cable (round)

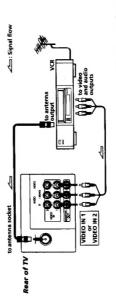
Attach an optional IEC antenna connector to the 75-ohm coaxial cable. Plug the connector into the  $\,\mathbb{T}\,$  (antenna) socket at the rear of the TV.



## Connecting optional equipment

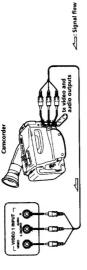
You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

# Connecting video equipment using video input jacks



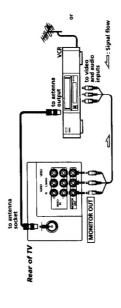
When connecting a monaural VCR Connect the yellow plug to VIDEO and the black plug to AUDIO-L (MONO).

Front of TV



When using the video input jacts to bot concert video input jacks the bot connect video equipment to the video input sides the from and the rear (VIDEO IN 1) of your IT's simultaneously; otherwise the picture will not be displayed properly on the

# Connecting audio/video equipment using MONITOR OUT jacks



Audio system

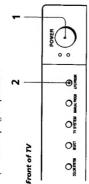
# When recording through the MONITOR OUT jacks If you change the channel or video input while recording with a VC, the channel or video input you are recording also vill be changed.

4 | Getting Starled

# **Presetting channels**

## Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.



### 1 Press POWER.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

### 2 Press AUTO PROGR.



To start presetting channels automatically from the specified program position
1 Press MANUAL PROGR.

2 Press PROGR +/- to select the program position.3 Press AUTO PROGR.

# Presetting channels manually

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

### T Press MANUAL PROGR.

- 2 Press PROGR +/- until the required program position appears on the screen.
- **3** Press VOLUME +/- on the TV until the required channel picture appears on the
- 4 Press MANUAL PROGR.

## Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR

### unwanted program position appears on the Press PROGR +/- until the unused or

- 2 Press MANUAL PROGR.
- 3 Press PIC MODE on the remote commander.
  - 4 Press MANUAL PROGR.

To cancel the skip setting
Preset the channel manually or automatically again.

Operations

# Watching the TV

## T Press POWER to turn the TV on.



When the TV is in standby mode after pressing POWER, press POWER on the remote commander.

# 2 Select the TV channel you want to watch.

To select a channel directly Press a number button.



the number buttons.

For example: to select channel 25, press "-/--," and then "2" and "5." To select a two-digit channel, press "-/--" before





To scan through channels
Press PROGR +/- until the channel you want



3 Press VOL +/- to adjust the volume.



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## Switching off the TV

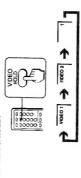
To switch off the TV temporarily, press POWER on the remote commander.



If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while. To switch off the TV completely, press POWER on the

## Watching the video input

### Press VIDEO/HOLD.



### To watch TV, press TV.

### Muting the sound

### Press MUTING.





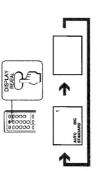
6 Getting Started

Operations | 9

## Displaying on-screen information

### Press DISPLAY/REVEAL.

The program position, local system, and TV settings are displayed on the screen.

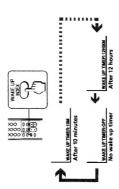


## Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

# T Press WAKE UP/INDEX repeatedly to set the

The on-screen display appears and the WAKE UP indicator lights up.



- 2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video
- **3** Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

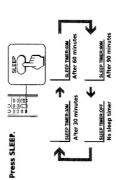
The Wake Up Timer starts immediately after the or-screen display disappears.

8 Operations

- The last TV program position ar video mode just before the TV turns into standby mode well appear when the TV is turned on using the Wake Up Timer.
   If no buttons or controls are presed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to confinite warding the TV, press any button or control on the CV or remote commander.

## Setting the Sleep Timer

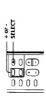
You can set the TV to turn off automatically after the period of time you want.



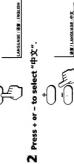
To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

### Changing the on-screen display language

on-screen display language. You can use buttons on the remote commander or the TV. If you prefer Chinese to English, you can change the



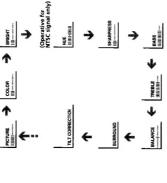
1 Press SBECT until the screen appears as follows:



Note
• You can also use VOLUME +/- on the TV to select the on-screen display language.

## **Adjusting the picture** and sound

Each time you press SELECT, the screen changes as



+ or -

### Note on TILT CORRECTION

Press PIC MODE until the mode you want

appears.

Selecting the picture mode

The earth's magnetic field may affect the tilt of the TV picture.
 You can adjust the picture tilt using TILT CORRECTION.

## 2 Press + or - to adjust the item.

Each time you press PIC MODE, the screen changes as

follows:

ተ High contrast

# 3 To adjust other items, repeat steps 1 and 2.

You can also use VOLUME +/- on the TV to adjust the picture

and sound settings.

### Press COLOR SYSTEM or adjust the color setting until If the color of the picture is abnormal

with the

If you change the picture mode after the following adjustments, the adjustment changes in accordance picture mode.

Normally set COLOR SYSTEM to AUTO.

the color becomes normal.

### Front of TV

1 Press SELECT until the item you want to

adjust appears.

Adjusting the picture and sound settings



### Selecting a stereo or bilingual program

### ■ KV-7295Z8 only

## Press A/B/ENLARGE repeatedly until you receive the sound you want.

The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



## When receiving a A2 (German) program

On-screen display (Selected sound)	eo STEREO (Stereo sound)	rgual Main STEREO STEREO (Subsound)
Broadcasting	A2 (German) stereo	A2 (German) bilingual

## Receiving area for A2 (German) program

teceiving area	Australia, Malaysia, Thailand, etc.	
System Re	A2 (German) Au	

If the signal is very weak, the sound becomes monaural

## Viewing Teletext

### KV-7295F81 only

You can request your nearest authorized service center or dealer to install the Teletext adaptor into your TV. OPK-T200G (not supplied) to view the Teletext broadcast. For the KV-T29SF8 and KV-T29SZ8 models, you need the Teletext adaptor

### WIDEC/HOLD PROGR +/---- FASTEXT --- Number 0 9000 TEXT ---DISPLAY/REVEAL~

### **Displaying Teletext**

- Select a TV channel which carries the Teletext broadcast you want to watch.
- A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, 100 is displayed at the top left corner of the screen. 2 Press TEXT to display the Teletext.

To cancel the Teletext display, press TV.

## Superimposing a Teletext page on the TV

Each time you press TEXT, the screen changes as Press TEXT.

Teletext — ▼ Teletext and TV — ▼ TV —

# Checking the contents of a Teletext service

Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

### **Using FASTEXT**

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the

Press the color button which corresponds to the colorremote commander. coded menu.

The page is displayed after a few seconds.

### Selecting a Teletext page

If you make a mistake, key in the correct page number To input the three-digit page number of the Teletext page, press the number buttons.

To access the next or previous page, press PROGR +/-.

## Holding a Teletext page (subpage)

The HOLD symbol "F" is displayed at the top left Press VIDEO/HOLD. corner of the screen. To resume normal Teletext operation, press VIDEO/HOLD again or TEXT.

## Revealing concealed information

To conceal the information, press DISPLAY/REVEAL Press DISPLAY/REVEAL

## **Enlarging the Teletext display**

Each time you press A/B/ENLARGE, the Teletext display changes as follows: Press A/B/ENLARGE.

Enlarge Enlarge Normal size

# Waiting for a Teletext page while watching a TV program (TEXT CLEAR)

# 1 Key in the page number of the Teletext that you

- want to refer, then press TEXT CLR.
- 2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

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If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

### Snowy picture Noisy sound



- Check the antenna.
- → Check the antenna connection on the TV and on the wall.

### **Dotted lines or stripes**



→ This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

## Double images or "ghosts"



nearby mountains or buildings. A highly directional antenna may improve the ◆ This may be caused by reflections from

- When you switch on the TV, you may hear the "boon" sound that is caused by the denagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the
  direction of your IV. Toobain the normal picture color, press
  POWER on the IV to switch off the TV for five minutes and
  then switch it on again.

### No picture No sound



- ♣ Press POWER.
- ◆Check the antenna connection.
   ◆Check the VCR connections.
   ◆Check the power cord connection.
   ◆Check the standby mode.

### Good picture No sound



- ◆ Press VOLUME +.
  ◆ Press MUTING.
  ◆ Press A/B/ENLARGE (KV-T29SZ8 only).

### No color



◆ Even if the picture or the sound is normal, → Adjust the COLOR level in the on-screen ◆Check the COLOR SYSTEM setting. changes in the room temperature display. TV cabinet creaks

sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction. Note on the remote commander

The supplied remote commander is used on several models of the FV II you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

Note on the TV SYSTEM button
The TV SYSTEM button is not used on your TV.

WARNING

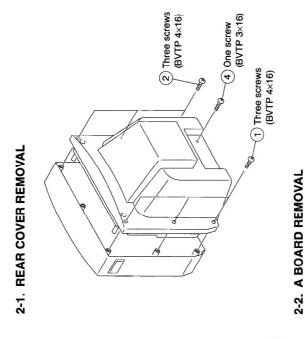
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

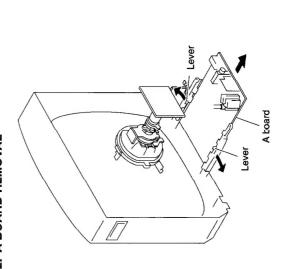
DISASSEMBLY

F1 board 2-3. F1 BOARD REMOVAL

A board 2-4. SERVICE POSITION

**SECTION 2** 



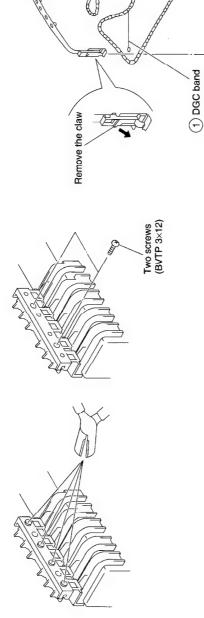


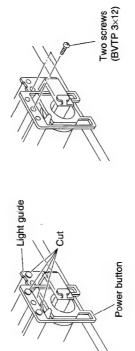
2 DGC holder

# 2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

# 2-5-1. REPLACEMENT OF MULTI BUTTON

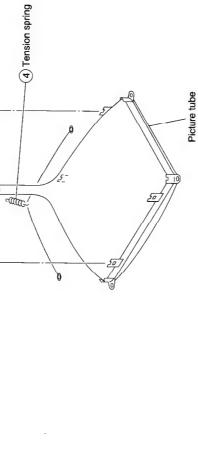




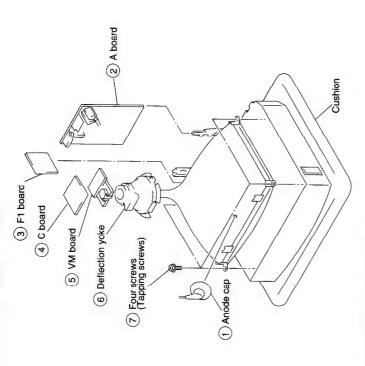


3 Demagnetization coil

# 2-5-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON



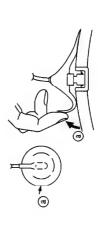
# 2-7. PICTURE TUBE REMOVAL



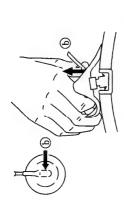
# REMOVAL OF ANODE-CAP

NOTE: After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

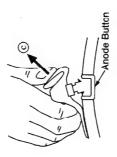
## REMOVING PROCEDURES



 $\odot$  Turn up one side of the rubber cap in the direction indicated by the arrow  $\odot$ 



② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow (b).



cap can be removed by turning up the rubber cap and pulling it up in the direc-③ When one side of the rubber cap is separated from the anode button, the anodetion of the arrow @.

# HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
   ② Do not press the rubber too hard so as not to damage the inside of anode-caps. A metal fitting called the shatter-hook terminal is built into the rubber.
  - Do not turn the foot of rubber over too hard. 0

The shatter-hook terminal will stick out or damage the rubber.





### SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

### Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

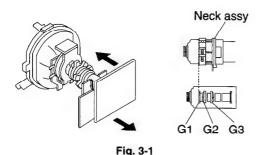
1. Input a white signal with the pattern generator.

Contrast
Brightness normal

- 2. Position neck assy as shown in Figure 3-1.
- 3. Set the pattern generator raster signal to green.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to red and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)



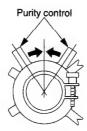


Fig. 3-2

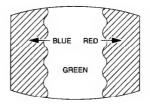
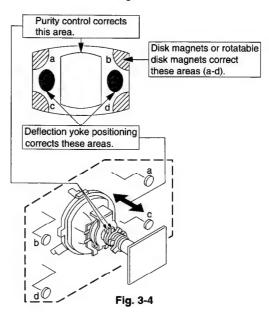


Fig. 3-3



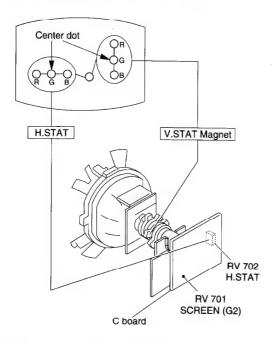
### KV-T29SF8/T29SF81/T29SZ8

### 3-2. CONVERGENCE

### Preparation:

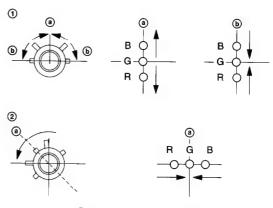
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- · Provide dot pattern.

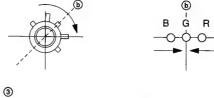
### (1) Horizontal and Vertical Static Convergence

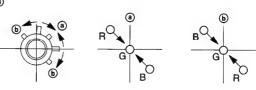


- (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- (Moving horizontally), adjust the H.STAT VR magnet so that the red, green, and blue points are on top of each other at the center of the screen.

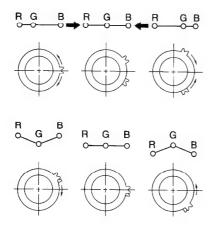
If the V.STAT magnet is moved in the direction of the (a) and
 b) arrows, the red, green, and blue points move as shown below.



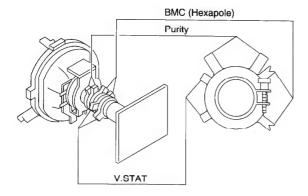




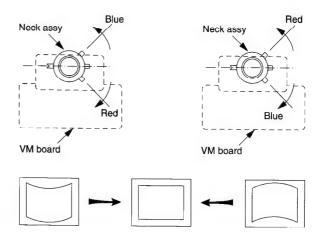
Operation of BMC (Hexapole) Magnet
 If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



 Then use the H.STAT VR to adjust the red, green, and blue dots so that they coincide at the center of screen.
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.



- Y separation axis correction magnet adjustment.
- Receive the cross-hatch signal and adjust [PICTURE] to "MIN" and [BRIGHTNESS] to "STANDARD".
- Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



**Note:** 1) The Red and Blue magnets should be equally far from the horizontal center line.

2) Do not separate the Red and Blue magnets too far. (Less than 8 mm)

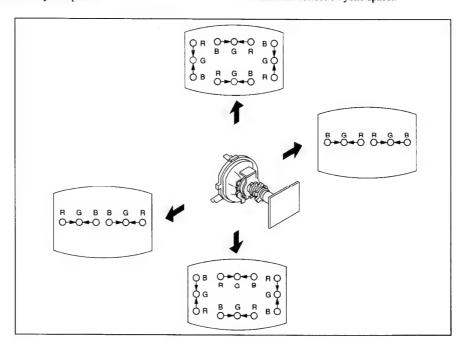
### KV-T29SF8/T29SF81/T29SZ8 RM-870

### (2) Dynamic Convergence Adjustment

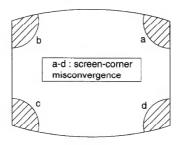
### **Preparation:**

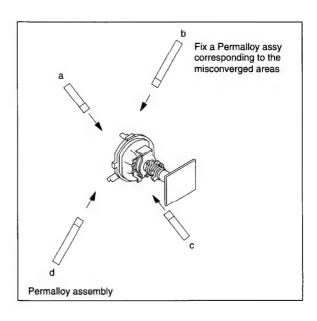
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the deflection yoke spacer.



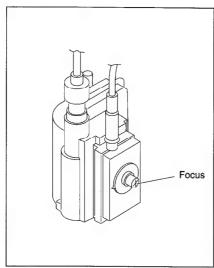
### (3) Screen-corner Convergence





### 3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



Note: Screen VR is not use.

### a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

### b. METHOD OF CANCELLATION FROM SERVICE MODE

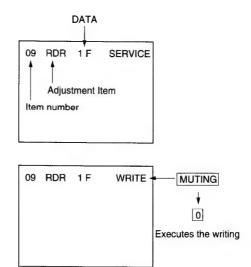
Set the standby condition (Press POWER button on the commander) and then press POWER button again, hereupon it becomes TV mode.

### c. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN) to select an item of adjustments.
- 3) Press MUTING button and it will indicate WRITE on screen.
- 4) Press 0 button to write into memory.

### d. MEMORY WRITE CONFIRMATION METHOD

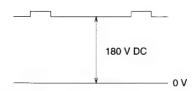
- After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.



### 3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

### 1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G, and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



### 2. WHITE BALANCE ADJUSTMENTS

- 1) Set the Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with 1 and 4, and then set the level to 25 with 3 and 6.
- 5) Select GDR(0A) and BDR(0B) with 1 and 4 and adjust the level with 3 and 6 for the best white balance.
- 6) Write into the memory by pressing  $\boxed{\text{MUTING}} \rightarrow \text{then } \boxed{0}$ .

### KV-T29SF8/T29SF81/T29SZ8

### SECTION 4 SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem. In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

Device	NONVOLATILE MEMORY	-	Y/C JUNGLE	_	_	AUDIO PROCESSOR (TDA8424)
Flickering Frequency	1		3	_	_	6

All the devices are checked one after another from the left of the table.

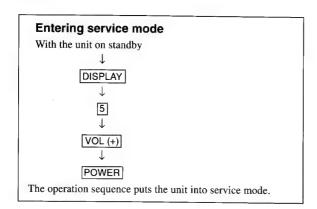
If an error is found, the responding LED will start flickering.

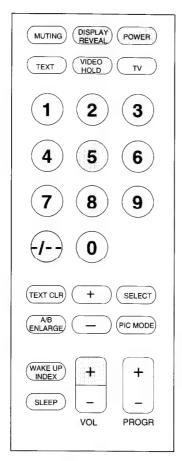
So, if more than 1 device have failed, only the one on the left side will flicker.

### SECTION 5 CIRCUIT ADJUSTMENTS

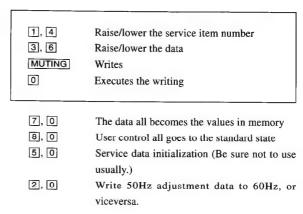
### 5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

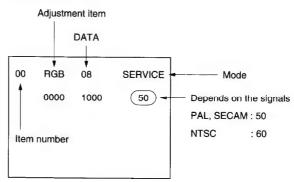


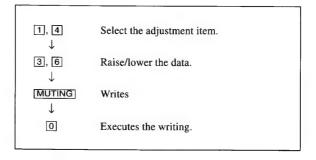


RM-870



The screen display is:





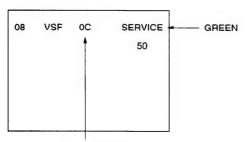
### KV-T29SF8/T29SF81/T29SZ8 RM-870

### 5-2. ADJUSTMENT METHOD

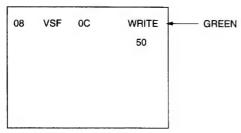
Item Number 08

This explanation uses V-SHIFT as an example.

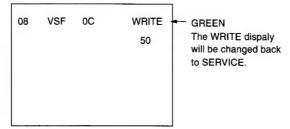
- 1. Select 08 V-SHIFT with the 1 and 4 buttons.
- 2. Raise/lower the data with the 3 and 6 buttons.
- 3. Select the optimum state. (The standard is 0F for PAL reception.)
- 4. Write with the MUTING button.
- 5. Execute the writing with the ① button. (The WRITE display returns to green SERVICE.)



Adjust with the 3 and 6 buttons.



Written with the MUTING.



Write executed with 0.

Use the same method for Items Number 00-49. Use 1 and 4 to select the adjustment item, use 3 and 6 to adjust, write with MUTING, then execute the write with 0.

### **Adjustment Item Table**

Item number	Adjustment Item	Data range	Initial data		Standard data		Note	Device
00	HSF	00-3F	24	50: 24	60: 24		H SHIFT	TDA8375
01	HSZ	00-3F	23	50: 1F	60: 1F		H SIZE	TDA8375
02	PAP	00-3F	21	50: 2E	60: 2D		PIN AMPLITUDE	TDA8375
03	CNP	00-3F	29	50: 23	60: 26		CORNER PIN	TDA8375
04	TLT	00-3F	20	50: 21	60: 25		TILT	TDA8375
05	VSL	00-3F	20	50: 1D	60: 1D		V SLOPE	TDA8375
06	VAP	00-3F	1D	50: 38	60: 34		V AMPLITUDE	TDA8375
07	SCR	00-3F	20	50: 20	60: 20		S CORRECTION	
08	VSF	00-3F	20	50: 2A	60: 2B		V SHIFT	TDA8375 TDA8375
09 -	RDR	00–3F	25		$-\frac{3}{26}$			
0A	GDR	00–3F	20		20		WHITE POINT R	TDA8375
0B	BDR	00-3F	20				WHITE POINT G	TDA8375
	+						WHITE POINT B	TDA8375
OC	FO	00-02	00	TV: 00	VIDEO: 03	TEXT: 01	PHI-1 TIME CONSTANT	TDA8375
0D	AGC	00-3F	30	TV: 2A	VIDEO: 2A	TEXT: 2A		TDA8375
0E	vsw	_00-01	00	TV: 00	VIDEO: 01	TEXT: 00	VIDEO MUTE	TDA8375
0F	FOR	00-03	03		03		FORCED FIELD FREQ.	TDA8375
10	DL	00–01	00				INTERLACE	TDA8375
11	POC	00-01	00				SYNCHRO MODE FIX	TDA8375
12	VID	00-01					VIDEO IDENT MODE	TDA8375
13	нсо	00-01	00				EHT TRACKING MODE	
14	EVG	00-01	00				ENABLE V GUARD	TDA8375
15	SBL	00-01	00					TDA8375
16	PRD	00-01	00				SERVICE BLANKING	TDA8375
<del> </del>							OVER-VOLTAGE INPUT	TDA8375
17	COR	00-01	00				NOISE CORING PEAK	TDA8375
18	PMX	00-3F	27		2D		PICTURE MAX DATA	TDA8375
19	PMI	00-3F	05		0		PICTURE MIN DATA	TDA8375
1A	SBR	00~7F	4B		50		SUB-BRIGHTNESS	TDA8375
_1B	SHU	00-0F	07		06		SUB-HUE	TDA8375
1C	SSH	00-03	01	TV: 00	VIDEO:	01	SUB-SHARPNESS	TDA8375
1D	SC1	00-3F	1F	50: 22	60: 29		SUB-COLOR LOWER	TDA8375
1E	SC2	00-3F	0B	50: 0C	60: 0F		SUB-COLOR HIGHER	TDA8375
1F	AIP	00-7F	3F				ADJUSTMENT IF PLL	TDA8375
20	VZM	00-3F	19				VERTICAL ZOOM	TDA8375
21 -	FAW	00-FF	08					
22	СТМ	00-FF	08				NICAM FAW THRESH	MSP3410
23	CNT	00-FF	50				NICAM ERROR BIT (MONO)	MSP3410
24	WCD	00-FF	0A				NICAM ERROR BIT (NICAM)	MSP3410
25	WCD	00-FF					W. G. CHANGE DATA	MSP3410
			15				W. G. STEREO CUT POINT	MSP3410
26	WTM	00-FF	50				W. G. TIMER CHANGE	MSP3410
27	WBT	00-FF	EA				W. G. BILINGUAL	MSP3410
28	ACG	00-01	01				AGC AUTO/CONST.	MSP3410
29	CDB	00-3F	28				AGC GAIN CONST.	MSP3410
2A	FGP	00-7F	24				FM (BG, I, DK) PRESCALE	MSP3410
2B	FMP	00-7F	40				FM (M) PRESCALE	MSP3410
2C	WGP	00-7F	3C				W. G. PRESCALE	MSP3410
2D	NIP	00-7F	7F				NICAM PLESCALE	MSP3410
2E	CRM	00-01	00				CARRIOR MUTE	MSP3410
2F	CMI	00-03	00				CARRIOR MUTE LEVEL	MSP3410
30	ACO	00-01	01				AUDIO CLOCK OUT	MSP3410
31	WAC	00-0F	01				W. G. AGREEMENT COUNT	MSP3410
32	DLY	00-FF	30				STEREO SEARCH DELAY	MSP3410
	DLC	00-FF	10				W/G SEARCH DELAY	MSP3410
33	DLG	00-11	10					14101 3410
$-\frac{33}{34}$	TXP	00-0F	$-\frac{10}{09}$		<del>0</del> D		TEXT PICTURE CONT.	SAA5281

### **Adjustment Item Table**

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
36	BKP	00-3F	00		BLK OFF PICTURE	CXP85200
37	HBL	00-3F	25		H BLK LEFT WIDTH	CXP85200
38	HBR	00-3F	20		H BLK RIGHT WIDTH	CXP85200
39	VBH	00-7F	00		V BLK HIGHT WIDTH	CXP85200
ЗА	VBL	00-FF	FF		V BLK LOW WIDTH	CXP85200
3B	ODL	00-FF	10		POWER ON DELAY	CXP85200
3C	OFR	00-0F	00		REMO. CON. RGB OUT	CXP85200
3D	OFM	00-0F	00		MAIN POWER RGB OUT	CXP85200
3E	OSH	00-3F	0A		OSD POSITION H	CXP85200
3F	DKS	00-01	00		D/K STEREO SEARCH	CXP85200
40	MUT	00-01	00		NO SYNC. MUTE	CXP85200
41	DWZ	00-01	00		DISEBLE WIDEZOOM	CXP85200
42	ABL	00-01	00		BRIGHT ABL	CXP85200
43	DTV	00-01	00		DISABLE TV SYS KEY	CXP85200
44	SCM	00-01	00		SECAM TRAP ACTIVE	CXP85200
45	ROC	00-0F	07		ROTATION CENTER	CXP85200
46	ROS	00–07	03		ROTATION STEP WID	CXP85200
47	DVM	00-01	00		DISABLE VM MODE	CXP85200
48	OP0	00-FF	40	70	OPTION 0	CXP85200
49	OP1	00-FF	07	4D	OPTION 1	CXP85200

### NOTE

• Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.

In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

50 ..... 50 Hz data
 60 ..... 60 Hz data

• Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

### ITEM INFORMATION

• 10. DL: TV/MIX Mode 0=Interlace 1=interlace, TEXT Mode 0=interlace 1=Interlace

• 42. ABL: Bright ABL ON/OFF ON=1 OFF=0

• 48. OP0 • 49. OP1

Input data are different according to models.

AV INPUT : 00  $\rightarrow$  NO MODEL, 01  $\rightarrow$  MONO, CXA1315, 10/11  $\rightarrow$  STEREO, TDA8424

TV System : 00  $\rightarrow$  Multi model, 01  $\rightarrow$  B/G, 10  $\rightarrow$  D/K.I, 11  $\rightarrow$  B/G D/K

NTSC, SECAM, Chin

Shrp : Dynamic Mode @ 1  $\rightarrow$  Sharpness 50%, 0  $\rightarrow$  Sharpness 70%.

VM Operation :  $0 \rightarrow OFF$ ,  $1 \rightarrow ON$ 

### No. 48 OP0 \* Input data are different according to models

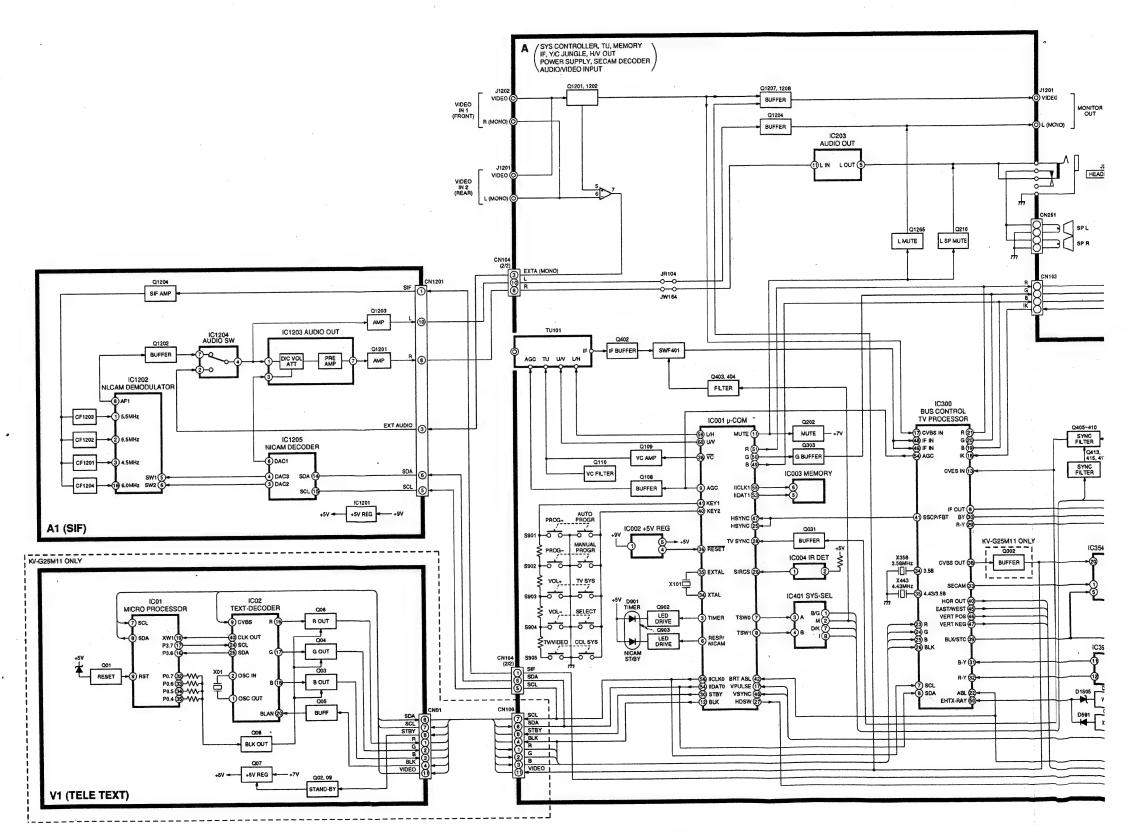
Item	_	AV Input		Shrp	_	_	_	Saudi
KV-T29SF8	0	0	1	1	0	0	0	0
KV-T29SF81	0	0	1	1	0	0	0	0
KV-T29SZ8	0	1	1	1	0	0	0	0

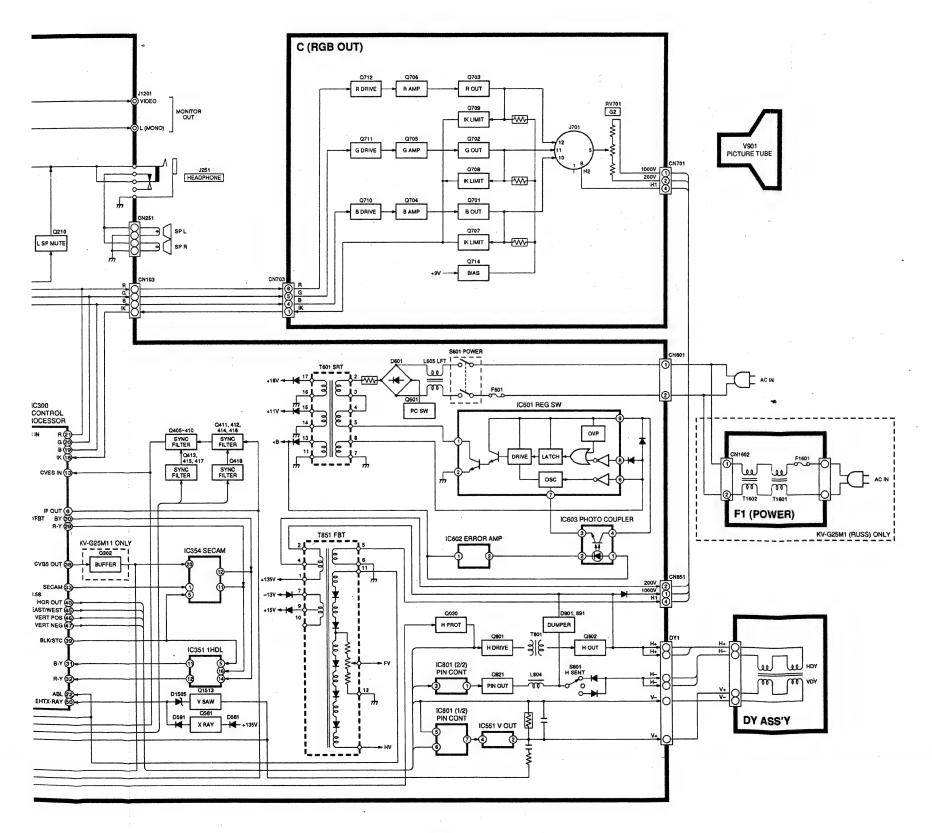
### No. 49 OP1

Item	_	VM	_	TV System		NTSC	SECAM	Chin
KV-T29SF8	0	1	0	0	1	1	0	1
KV-T29SF81	0	1	0	0	1	1	0	1
KV-T29SZ8	0	1	0	0	1	1	0	1

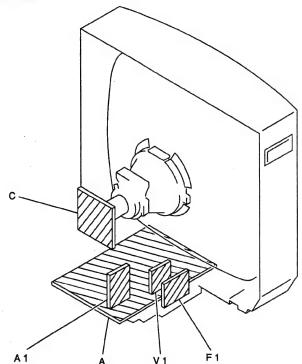
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS





### 5-2. CIRCUIT BOARDS LOCATION



### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

### Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.

 $k\Omega = 100\Omega$ ,  $M\Omega = 1000k\Omega$ 

 Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- $\triangle$  : internal component.
- \_\_\_\_\_\_ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.

no mark : PAL

( ): SECAM

- ( ): NTSC 4.43
- Readings are taken with a 10  $M\Omega$  digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Can not be measured.
- Circled numbers are waveform reference.
- . B + bus.
- B bus.
- : signal path.

### RESISTOR : RN METAL FILM

	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
•	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	:PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR

Note: The component identified by shading and mark A are critical for safety. Replace only with part number specified.

HIGH TEMPERATURE

HIGH RIPPLE

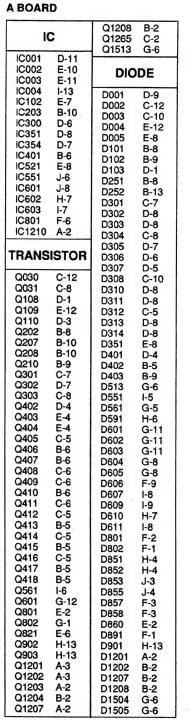
: ALR

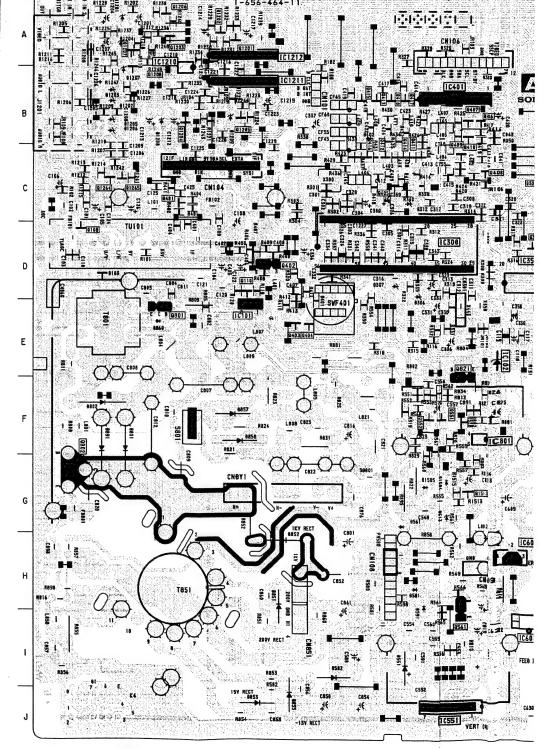
### PRINTED WIRING BOARD



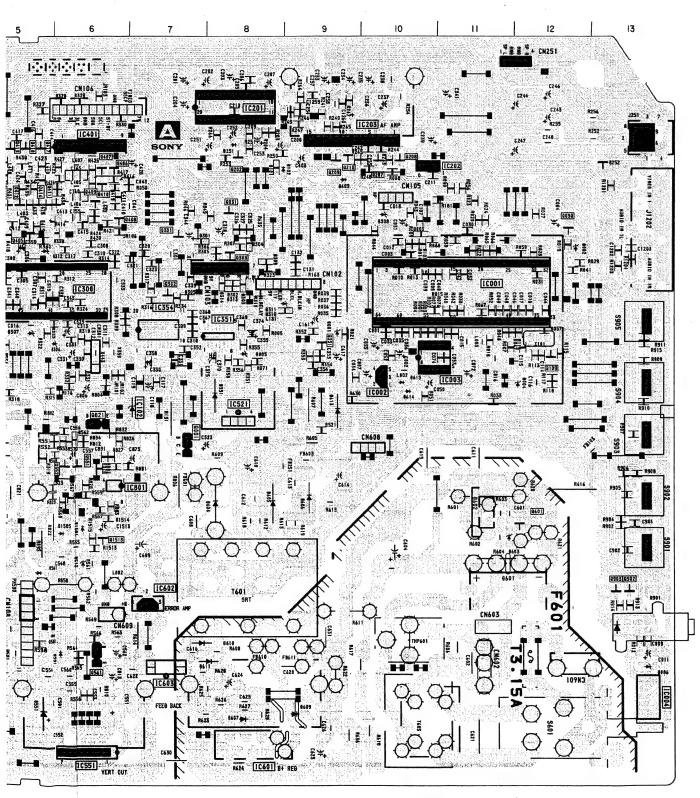
[SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

### A Board -

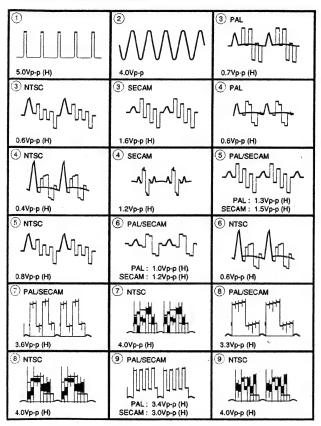


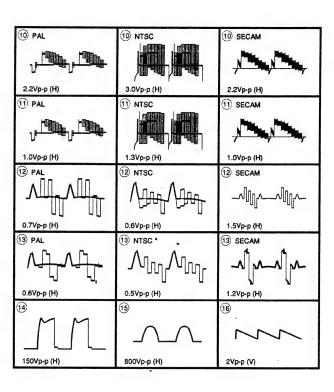


)EO INPUT



### A BOARD WAVEFORMS

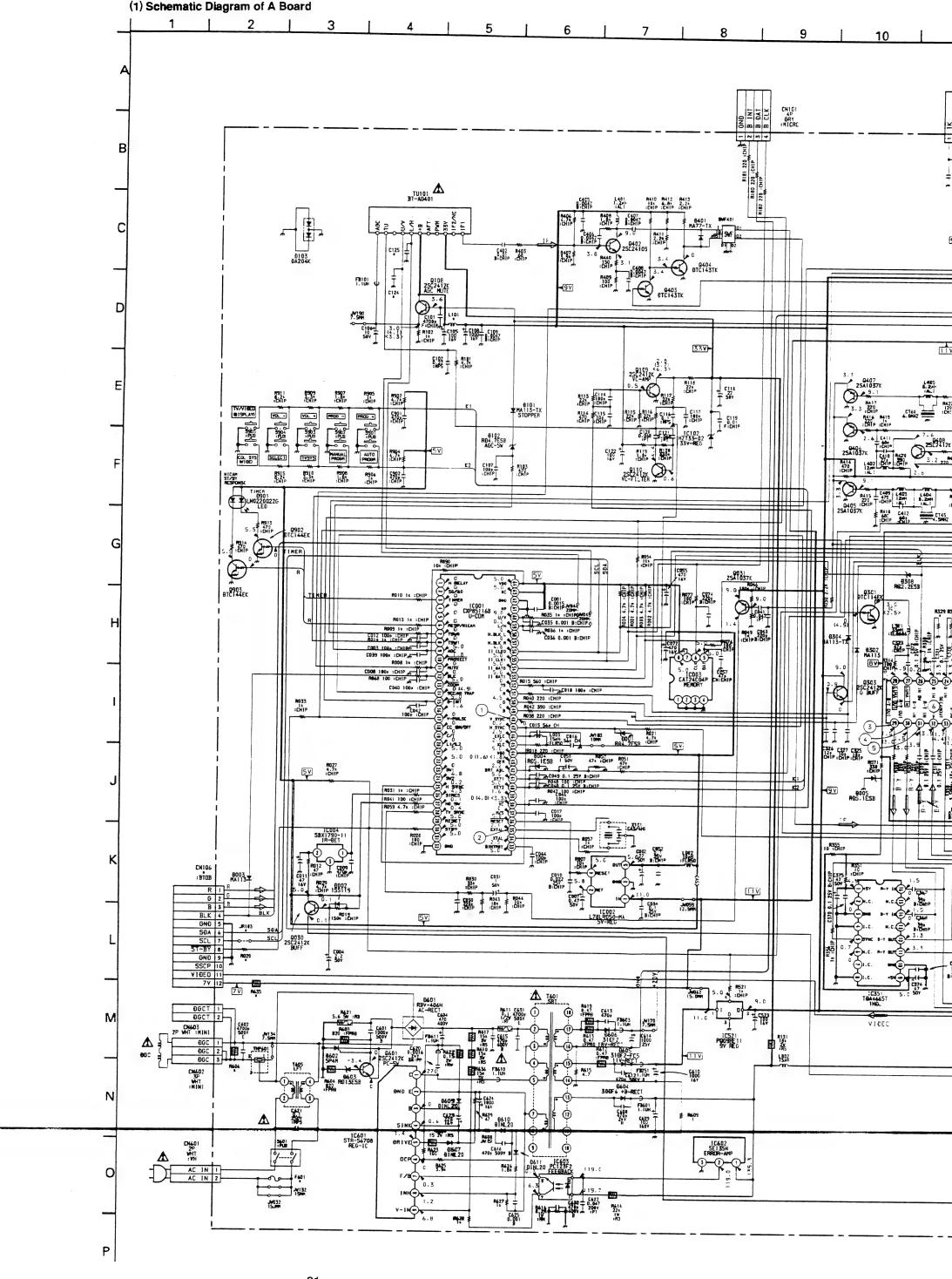


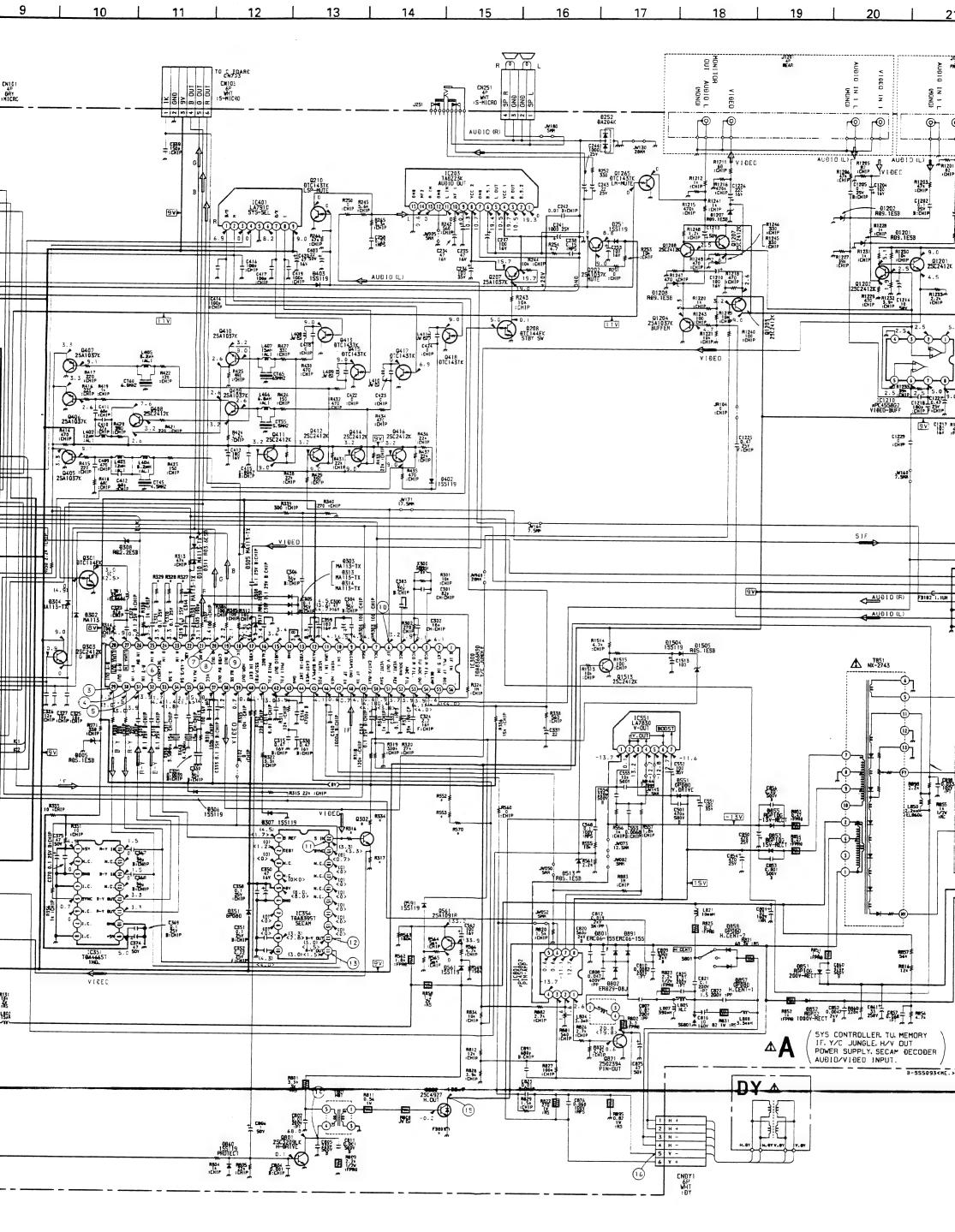


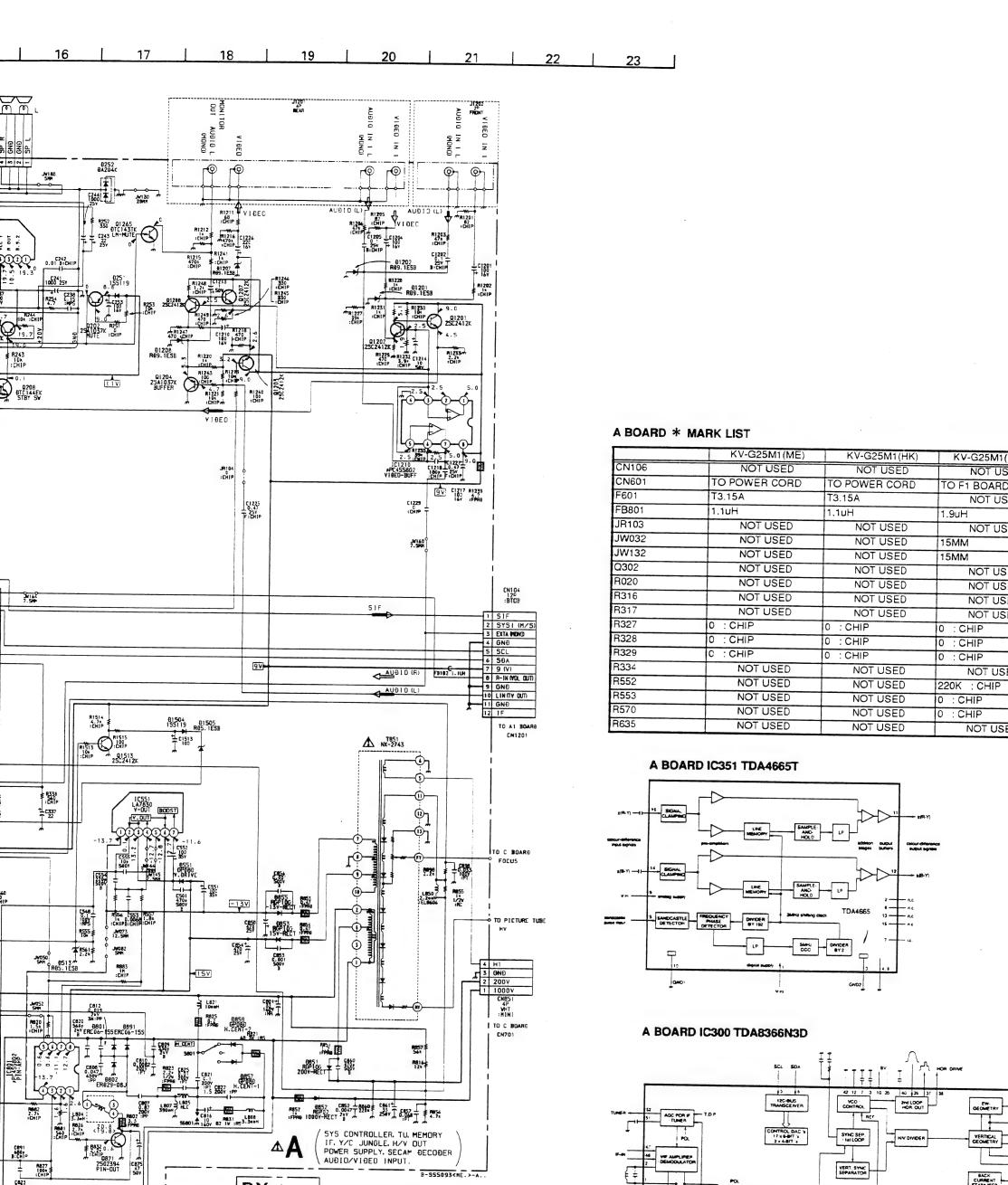


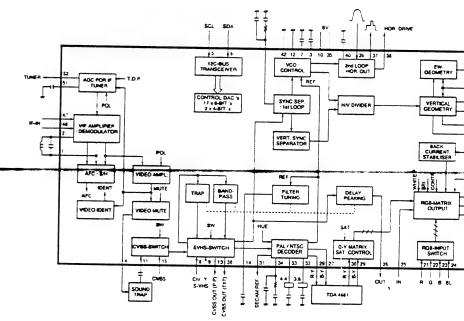
### NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.









DX

MA29 1.51 1.WIP 185

R895 70.82 :RS

(16)

CNDY1 6P WHT : DY

SYS CONTROLLER, TU, MEMORY IF. Y/C JUNGLE, H/V OUT POWER SUPPLY, SECAM DECODER AUDIO/VIDEO INPUT.

B-955093<HE.>-A.

2 SYS1 (H/S)
3 EXTA PROND
4 GNÐ
5 SCL
6 SÐA
7 9 (V)
6 R-IN MOL DUT)
9 GNÐ
10 LIN (TY DUT)
11 GNÐ

TO A1 BOARS CN1201

FOCUS

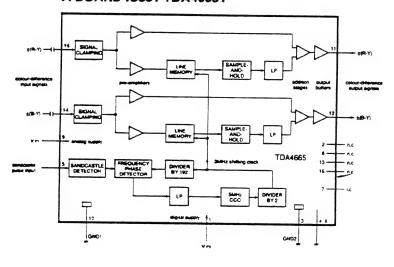
3 GND 2 200V 1000V CNB51 4P WHT :HINI

EN701

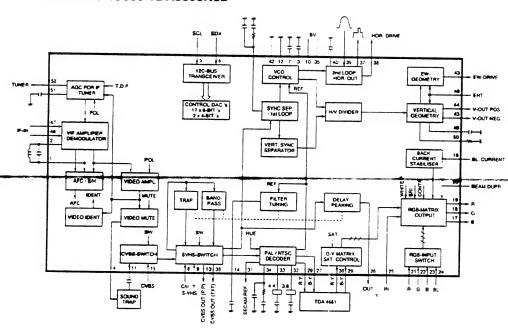
### A BOARD \* MARK LIST

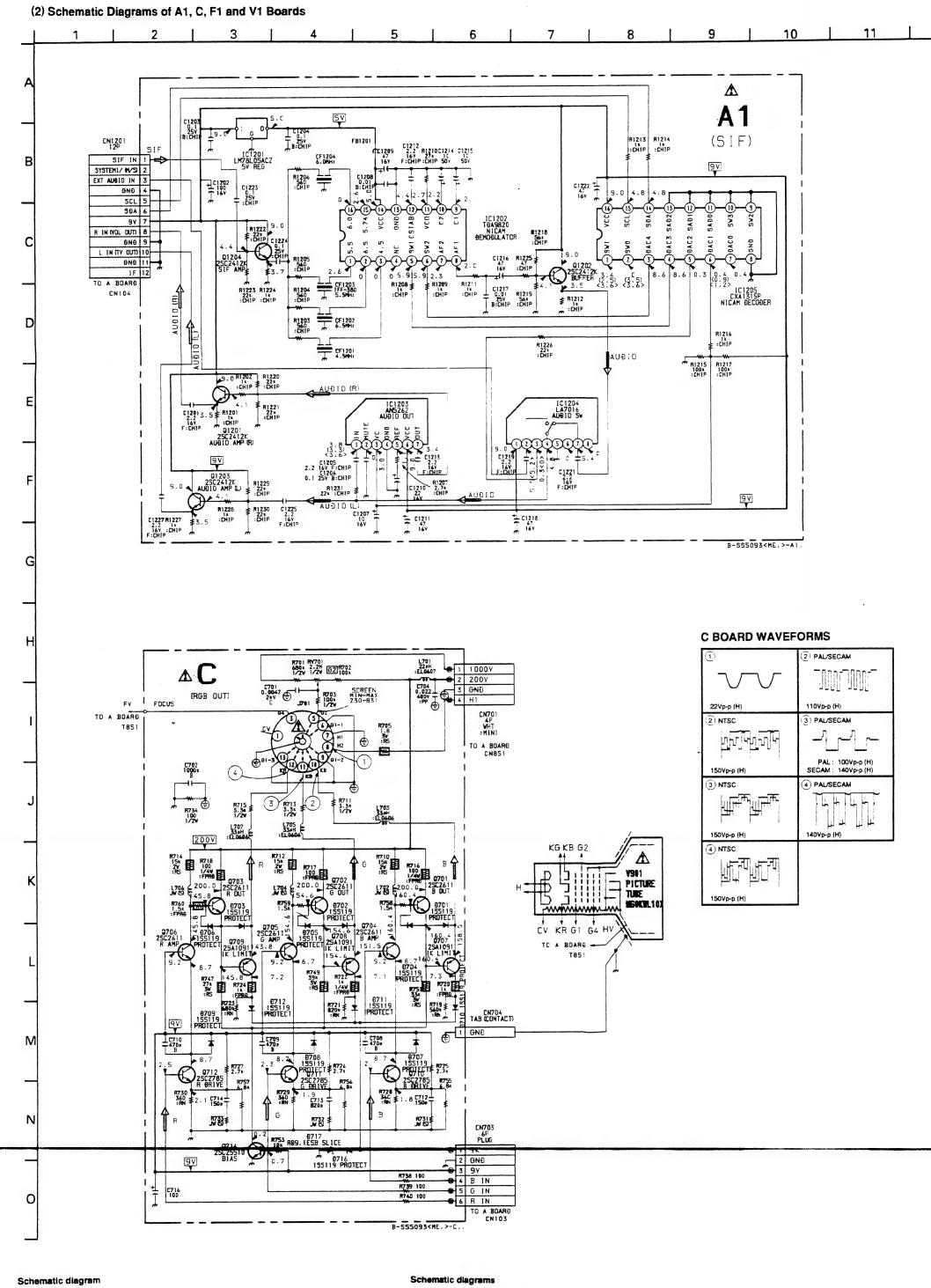
	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R <b>32</b> 7	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	C : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED		470 : CHIP
R552	NOT USED	NOT USED		220K : CHIP
R <b>55</b> 3	NOT USED	NOT USED		0 : CHIP
R570	NOT USED	NOT USED		0 : CHIP
R <b>63</b> 5	NOT USED	NOT USED		22 2W :RS

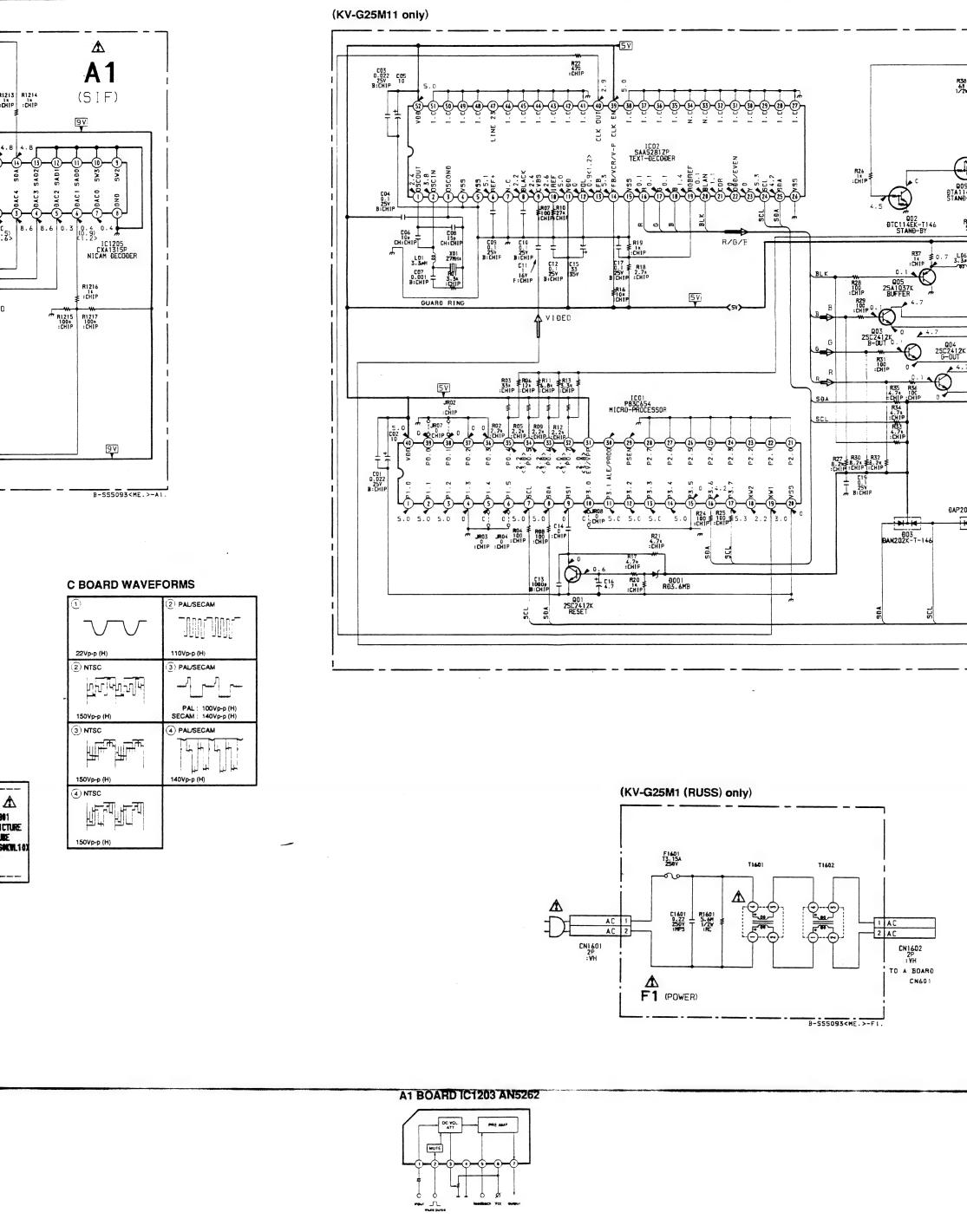
### A BOARD IC351 TDA4665T

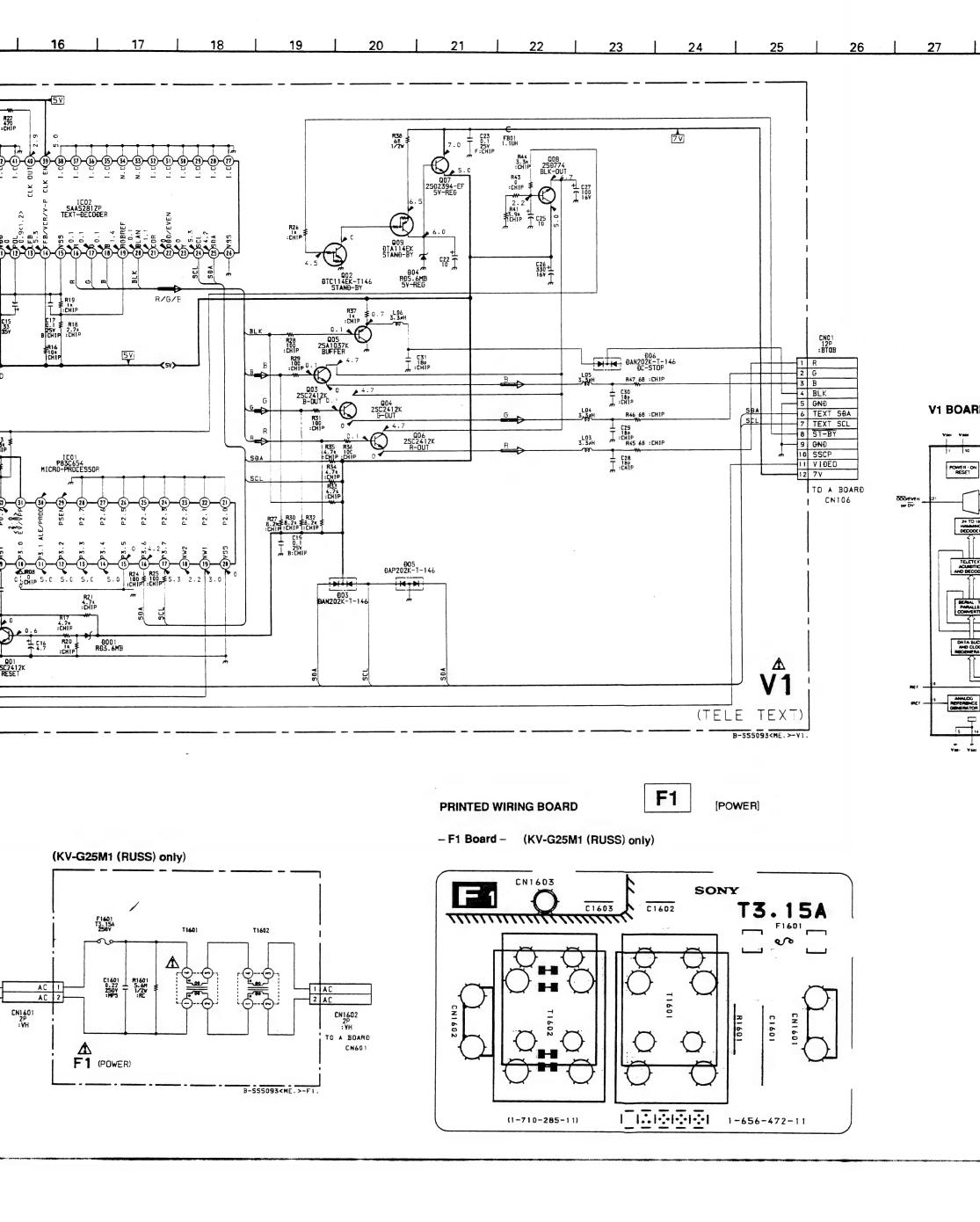


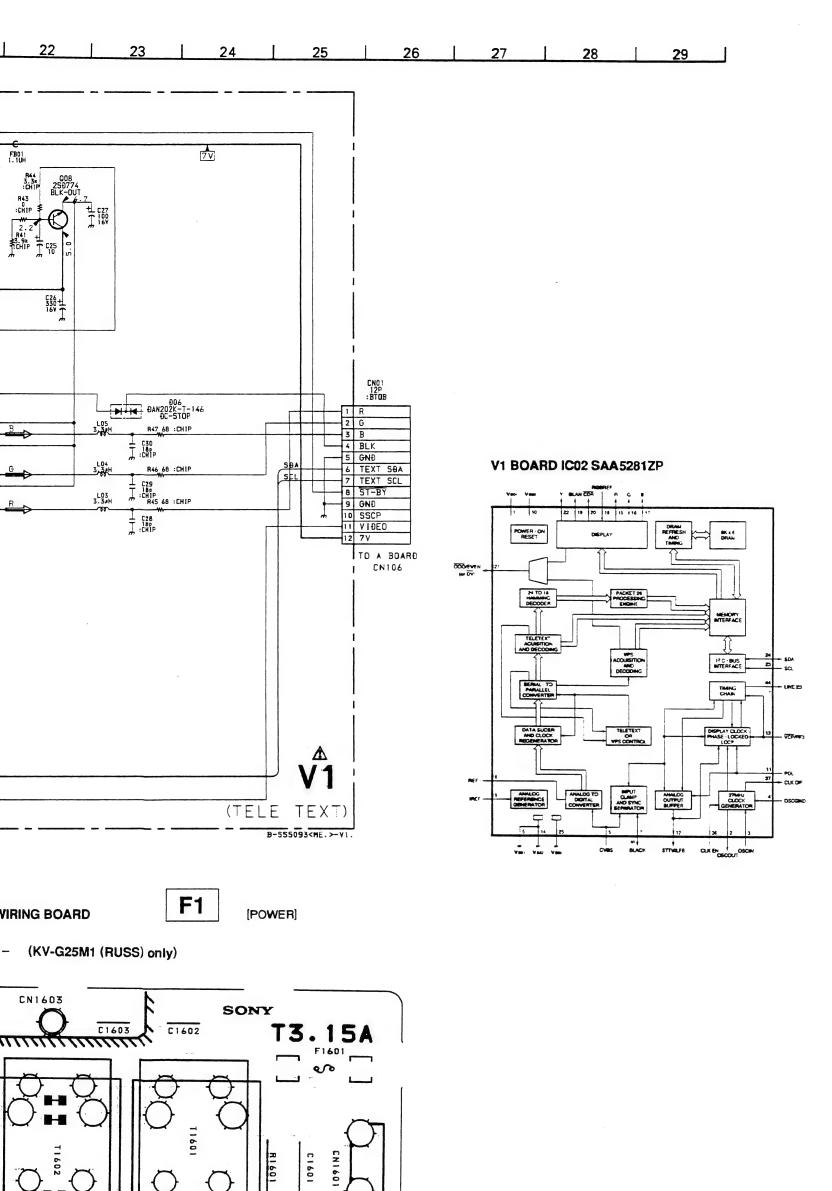
### A BOARD IC300 TDA8366N3D











1-656-472-11

(1-710-285-11)

PRINTED WIRING BOARDS

**A1** 

[SIF]

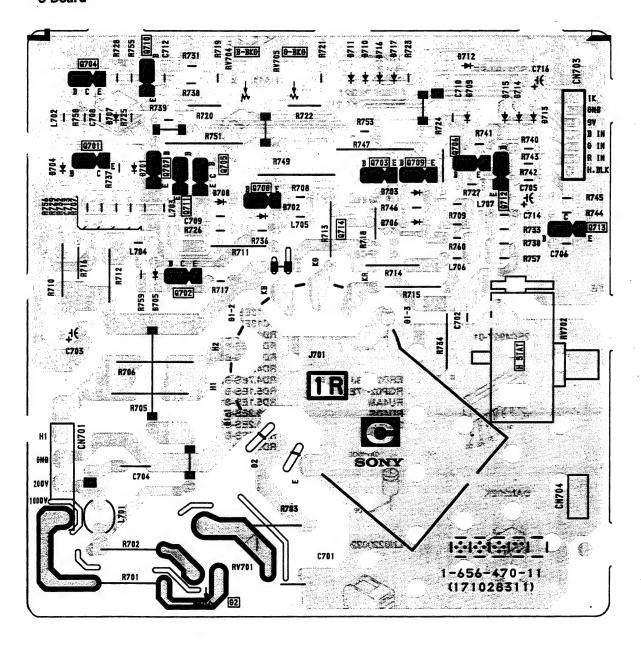
C

[RGB OUT]

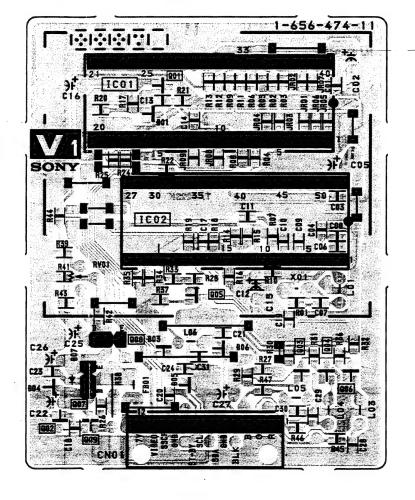
**V1** 

[TELE TEXT]

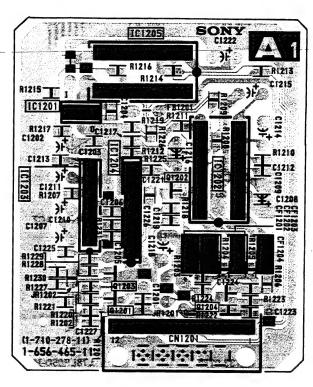
- C Board -



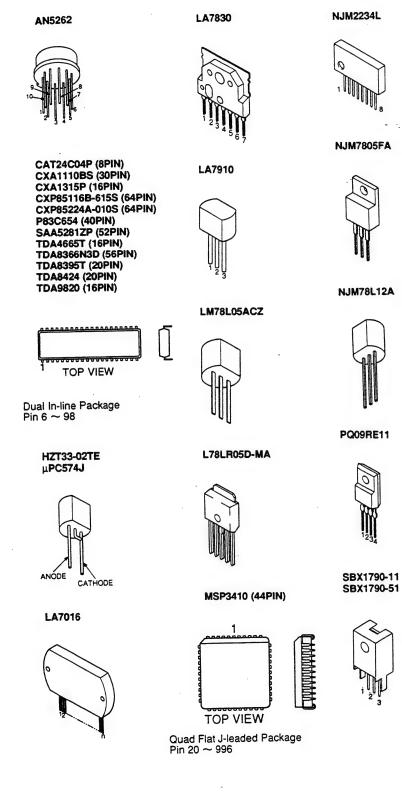
- V1 Board - (KV-G25M11 only)

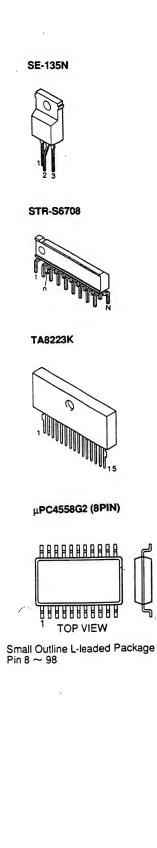


- A1 Board -

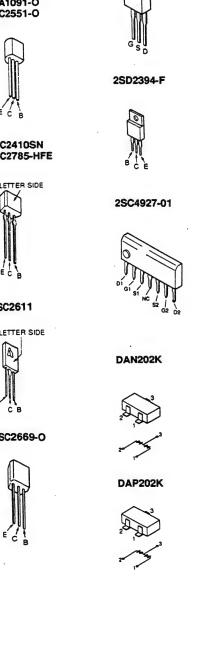


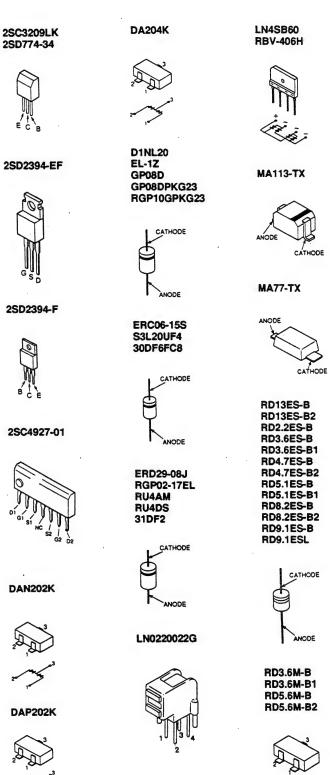
### 5-4. SEMICONDUCTORS

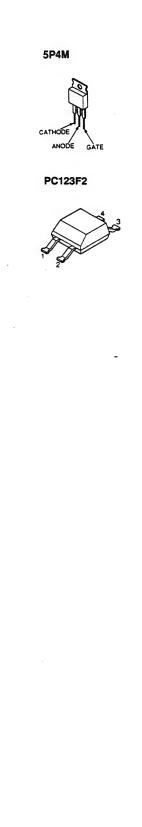




DTA114EK DTC114EK DTC143TK DTC144EK 2SA1037K-QR 2SA1162-G 2SC1623-L5L6 2SC2412K-QR 2SC2712-YG
2SA1091 2SA1091-O 2SC2551-O
E C B
2SC2410SN 2SC2785-HFE
LETTER SIDE
2SC2611
E C B
2SC2669-O







### KV-G25M1/G25M11

### KV-G25M1/G25M11

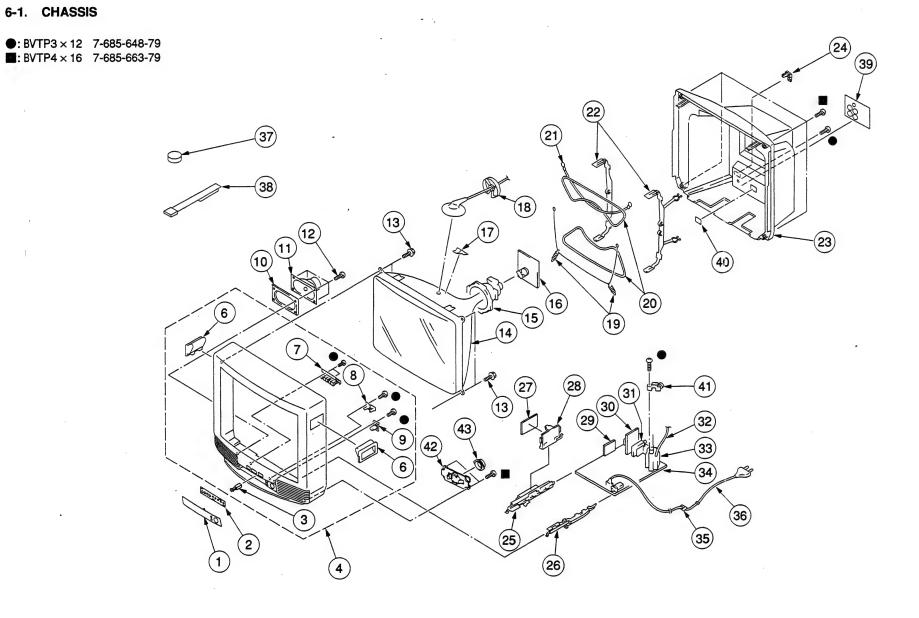
### SECTION 6 **EXPLODED VIEWS**

### TE:

- · Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

### 6-1. CHASSIS



REF. NO.	PART NO.	DESCRIPTION . REMARK
1 2 3 4	4-048-575-11	DOOR, CONTROL LABEL, CONTROL LOCK, MINIATURE SIDE BEZNET ASSY HANDLE
7 8 9 10	4-048-687-01 4-049-123-01 4-048-688-01 4-037-613-01	BUTTON, MULTI GUIDE, LIGHT BUTTON, POWER CUSHION, SP SPEAKER (5X12CM)
13 14 15	4-390-505-01 4.8-733-242-05 4.8-451-404-11	SCREW, STEP TAPPING SCREW (7), TAPPING PICTURE TUBE (MGORWLIOX) DEGLECTION SCHEW (V25GXAS) C BOARD, COMPLETE
17 18 19 20 21	4-369-318-61 1-403-619-11	SPACER, DY HOLDER, HV CABLE SPRING, TENSION COLL DEMACNETIZATION BAND, DEGAUSSING COIL
22 23 24 25 26		COVER, REAR
27 28 29 30	* 4-049-158-01 * A-1347-103-A * A-1292-869-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS)) BRACKET, F1 PC BOARD (KV-G25M1(RUSS)) V1 BOARD, COMPLETE (KV-G25M11) A1 BOARD, COMPLETE TUNIER RT-AG401
32 33 34	1.453-190-11 * A-1297-513-A * A-1297-552-A	LEAD ASSY, FOCUS TRANSFORMER BYBACK (NL—2743/A/3B) A BOARD, COMPLETE (KV-G25M1 (ME)) A BOARD, COMPLETE (KV-G25M1 (HK)) A BOARD, COMPLETE (KV-G25M1 (RUSS))
		2.6A2250, US CZALOE, OL. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST
37	1-452-032-00	MAGNET, DISC
38 39 40 41 42	4-049-121-01 4-049-416-01 4-039-460-01	PERMALOY ASSY, CORRECTION LABEL, TERMINAL SHEET, BLIND HOLDER, FBT BRACKET, SPEAKER

1-544-453-21 SPEAKER (2CM)

### ·KV-G25M1/G25M11

### KV-G25M1/G25M11

### SECTION 7 **ELECTRICAL PARTS LIST**





NOTE:

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " \* " are not stocked since RESISTORS service. Some delay should be • All resistors are in ohms
- anticipated when ordering these items. F: nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise
- - CAPACITORS • MF : μF, PF : μμF
  - COILS • MMH : μH, UH : μH

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	* 4 1000 060 4	AL DOADD COMPLETE					<ferrite bead=""></ferrite>		
	- A-1292-009-A	A1 BOARD, COMPLETE			FB1201	1-412-911-11	INDUCTOR, FERRI	TE BEAD	
		<capacitor></capacitor>					<ic></ic>		
C1201	1-164-505-11	CERAMIC CHIP 2.2MF		16V	TC1201	9 750 001 41	IC LM78L05ACZ		
C1202	1-104-665-11		20% 10%		IC1202	8-759-070-71	IC TDA9820		
C1203 C1204	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10%	25V			IC AN5262-(NT)		
C1205		CERAMIC CHIP 2.2MF		16V		8-759-800-81 8-752-057-18			
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V					
C1207	1-126-157-11			16V			<transistor></transistor>		
C1208 C1209	1-164-232-11	CERAMIC CHIP 0.01MF ELECT 47MF	10% 20%	50V 16V					
C1210	1-124-234-00		20%	16V	Q1201 Q1202		TRANSISTOR 2SCI		
			00%	1.017	Q1202 Q1203		TRANSISTOR 2SCI		
C1211 C1212	1-104-664-11	ELECT 47MF CERAMIC CHIP 2.2MF	20%	16V 16V	Q1204		TRANSISTOR 2SC		
C1212	1-164-505-11	CERAMIC CHIP 2.2MF		16V					
C1214	1-124-907-11	ELECT 10MF	20%	50V			<resistor></resistor>		
C1215	1-124-907-11	ELECT 10MF	20%	50V					
C1216	1-104-664-11	ELECT 47MF	20%	16V	R1201		METAL GLAZE 11		1/10W 1/10W
C1217	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	R1202 R1203		METAL GLAZE 11 METAL GLAZE 50		1/10W
C1218	1-104-664-11	ELECT 47MF	20%	16V 16V	R1204		METAL GLAZE 50	60 5%	1/10W
C1219 C1221		CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		16V	R1205	1-216-043-91	METAL GLAZE 50	60 5%	1/10W
C1222	1-104-664-11	ELECT 47MF	20%	16V	R1206	1-216-043-91	METAL GLAZE 5	60 5%	1/10W
C1222	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1207 R1208		METAL GLAZE 2	.7K 5%	1/10W 1/10W
C1224	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	R1208		METAL GLAZE 1		1/10W
C1225 C1227	1-164-505-11	CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF		16V 16V	R1210		METAL GLAZE 2		1/10W
(1221	1-104-303-11	CERUMIC CITI 2. 2M		101	R1211	1 216 065 00	METAL GLAZE 4	7¥ 5¢	1/10W
					R1211		METAL GLAZE 1		1/10W
		<filter></filter>			R1213	1-216-049-00	METAL GLAZE 1	K 5%	1/10W
CF1201	1-527-943-00	FILTER, CERAMIC			R1214		METAL GLAZE 1		1/10W 1/10W
CF1202	2 1-567-101-11	FILTER, CERAMIC			R1215	1-216-097-00	METAL GLAZE 1	00K 5%	1/10#
CF1203		FILTER, CERAMICO			R1216	1-216-049-00	METAL GLAZE 1		1/10W
CF1204	1-207-100-00	) FILTER, CERAMIC			R1217		METAL GLAZE 1		1/10W
					R1218 R1219	1-216-081-00			1/10W 1/10W
		<connector></connector>			R1219 R1220	1-216-081-00			1/10W
CN120	1 * 1-770-748-11	CONNECTOR, BOARD TO	BOARD	12P	n.cor			1017 E**	1 /100
J.,250.					R1221 R1222	1-216-081-00	METAL GLAZE 2 METAL GLAZE 2	2K 5%	1/10W 1/10W
					R1223		METAL GLAZE 2		1/10W
					,				

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1224 R1225	1-216-049-00	METAL GLAZE 1K METAL GLAZE 47	5% 1, 5% 1,		C101	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
111110	1 010 01. 00				C102	1-136-169-00	FILM	0.22MF	5%	50V
R1226	1_216_081_00	METAL GLAZE 22K	5% 1,	/10W	C105	1-104-665-11	ELECT	100MF	20%	16V
R1227	1-216-049-00	METAL GLAZE 1K	5% 1,		C106	1-124-907-11	ELECT		20%	50V
R1227	1 216 049 00	METAL GLAZE 1K	5% 1	/10W	C107	1-163-117-00	CERAMIC CHIP		5%	50V
R1229	1 216 001 00	METAL GLAZE 1K	5% 1	/10W	C108	1-126-942-61			20%	16V
R1229	1 216 001 00	METAL GLAZE 22K	5% 1, 5% 1, 5% 1,	/10W	0100	1 120 312 01	DEDU.	2000		20.
K1230	1-210-001-00	HILTHE GLALE ZZIN	5N 1,	7 1011	C109	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
D1221	1 216-081-00	METAL GLAZE 22K	5% 1.	/10W	C114		CERAMIC CHIP		5%	50V
KIZJI	1-210-001-00	METHE CEREE DER	0,0 1,		C115	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
******	******	*******	*****	*******	C116	1-136-165-00	FILM		5%	50V
					C117	1-163-117-00	CERAMIC CHIP		5%	50V
	* A-1297-513-A	A BOARD, COMPLETE (KV	-G25M1	(ME))						
	* A_1297_552_A	A BOARD, COMPLETE (KV	-G25M1	(HK))	C118	1-124-916-11	ELECT	22MF	20%	50V
		A BOARD, COMPLETE (KY			C119	1-163-059-00	CERAMIC CHIP			50V
		A BOARD, COMPLETE (KY			C120	1-130-493-00		0.068MF	5%	50V
	11 1231 000 11	**********	-	,	C121	1-130-493-00	MYLAR	0.068MF	5%	50V
					C122	1-104-665-11	ELECT		20%	16V
	1-533-223-11	CLIP. FUSE			-					
	*1-580-798-11	CLIP, FUSE CONNECTOR PIN (DY) 6F CASE (A), SHIELD			C124		CERAMIC CHIP			50V
	*4-049-131-01	CASE (A), SHIELD			C125	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
	4-382-854-11	SCREW (M3X10), P, SW	(+)		C234	1-104-664-11	ELECT	47MF	20%	16V
					C235	1-104-664-11 1-104-664-11	ELECT	47MF		16V
					C236	1-126-968-11	ELECT	100MF	20%	35V
		<capacitor></capacitor>								
					C237	1-104-665-11	ELECT		20%	16V
C001		CERAMIC CHIP 0.0015M			C238	1-136-167-00	FILM		5%	50V
C002	1-124-916-11		20%		C241	1-124-557-11	ELECT		20%	25V
C003	1-163-117-00	CERAMIC CHIP 100PF		50V	C242		CERAMIC CHIP			50V
C004	1-124-925-11	ELECT 2.2MF	20%	50V	C243	1-126-233-11	ELECT	22MF	20%	25V
C007	1-124-902-00	ELECT 0.47MF	20%	50 <b>V</b>	2044		DI DOT	10001/6	200	25V
					C244	1-124-557-11	ELECT		20%	
C008		CERAMIC CHIP 100PF	5%	50V	C253	1-104-665-11			20% 5%	16V 50V
C009		CERAMIC CHIP 470PF	5%	50V	C258 C300	1-136-169-00 1-104-664-11				16V
C010		CERAMIC CHIP 0.022MF		25V	C300		CERAMIC CHIP		202 5%	50V
C011	1-104-664-11	ELECT 47MF	20%	16V 50V	C301	1-103-249-11	CERAMIC CHIP	0211	3 <b>%</b>	301
C012	1-103-117-00	CERAMIC CHIP 100PF	5%	30V	C302	1_163_099_00	CERAMIC CHIP	1.8PF	5%	50V
COLE	1-101-884-00	CERAMIC 56PF	5%	50V	C303		CERAMIC CHIP			25V
C015 C016	1-101-884-00		5%		C304	1-164-004-11	CERAMIC CHIP	0.1MF		25V
C017		CERAMIC CHIP 100PF	5%	50V	C305		CERAMIC CHIP			25V
C018		CERAMIC CHIP 100PF	5%		C306		CERAMIC CHIP		10%	25V
C030		CERAMIC CHIP 220PF	5%							
0000	1 100 120 00	ODIGENIO CHII BOOL	0.0		C307	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C031	1-124-903-11	ELECT 1MF	20%	50V	C308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
		CERAMIC CHIP 0.1MF			C309	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C035		CERAMIC CHIP 0.001M	10	50V	C310	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C036		CERAMIC CHIP 0.001M	10%	50V	C311	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C039	1-163-117-00	CERAMIC CHIP 100PF	5%	50V						
					C312		CERAMIC CHIP		5%	50V -
C040	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	C313	1-104-665-11	ELECT		20%	16V
C041	1-130-491-00	MYLAR 0.047MF	5	50V	C314	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C042		CERAMIC CHIP 100PF	5%	50V	C315		CERAMIC CHIP		10%	16V
C043	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
€044	1-163-117-00	CERAMIC CHIP 100PF	5%	50V						1
					C319		CERAMIC CHIP		10%	25V
C046		CERAMIC CHIP 100PF	5%	50V	C320		CERAMIC CHIP		10%	25V
C048		CERAMIC CHIP 0.1MF	10%	25V	C321		CERAMIC CHIP		10%	25V
C049		CERAMIC CHIP 0.1MF	10%	25V	C322		CERAMIC CHIP		10%	25V
C050	1-124-903-11		20%	50V	C323	1-163-109-00	CERAMIC CHIP	4 / PF	5%	50V
C052	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	0001	1 164 005	CEDANTO CUT	0 0100		1617
	1 100 044	W DOD	004	1.07/	C324		CERAMIC CHIP		<b>5</b> %	16V
C055	1-126-941-11		20%	16V	C325	1-163-093-00	CERAMIC CHIP	1000	5% =«	50V
C057		CERAMIC CHIP 47PF	5%	50V	C326		CERAMIC CHIE		5%	50V
C072	1-126-941-11		20%	16V	C327		CERAMIC CHIE		5%	50V 50V
C074	1-163-001-11	CERAMIC CHIP 220PF	10%	50V	C329	1-103-010-00	CERAMIC CHIE	U. UUJYMI	T ()/9	301
		1000								

### KV-G25M1/G25M11

RM-870



The components identified by shading and mark ⚠ are critical for safety.

Replace only with part number specified.

C1225	REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CINIST   1-124-122-11   ELECT   1000F   20%   50V   50F	C1226	1-124-120-11	ELECT 220MF 20% 1		D601 D602	8-719-052-84 8-719-108-18	DIODE RBV-406H-02 THYRISTOR 5P4M	
CONNECTORS CONNECTOR (2.540) 4P  CN103 *1-560-124-00 PLUG, CONNECTOR 6P  CN104 *1-770-747-11 CONNECTOR, SOARD TO BOAND 12P  CN106 *1-770-747-11 CONNECTOR, SOARD TO BOAND 12P  CN251 *1-564-507-11 PLUG, CONNECTOR 6P  CN601 *1-580-843-11 PIN, CONNECTOR (POWER)  CN602 *1-580-766-00 PIN, CONNECTOR (SW PITCH) 3P  CN603 *1-580-843-11 PIN, CONNECTOR (SW PITCH) 3P  CN603 *1-580-766-00 PIN, CONNECTOR (SW PITCH) 4P  CN603 *1-580-766-00 PIN, CONNECTOR (S	C1513	1-124-122-11	ELECT 100MF 20% 5	0 <b>V</b>				
CNION   *1-564-509-11 PLUC, CONNECTOR ROADD 12P			<connector></connector>	:	D606	8-719-052-52	DIODE 31DF2-FD5	
CN106 *1-770-747-11 CONNECTOR, BOARD TO BOARD 12P (CW-G22M11)  CN251 *1-564-507-11 PULC, CONNECTOR (POWER) CN602 *1-569-765-00 PIN, CONNECTOR (SMM PITCH) 3P (CN603 *1-569-765-00 PIN, CONNECTOR (SMM PITCH) 3P (CN603 *1-569-766-00 PIN, CONNECTOR (SMM PITCH) 2P (CN603 *1-569-769-766-00 PIN, CONNECTOR (SMM PITCH) 2P (CN603 *1-569-769-769-769-769-769-769-769-769-769-7	CN103	*1-564-509-11	PLUG, CONNECTOR 6P	p				
CN601 *1-580-843-11 PIN, CONNECTOR (POWER)   D852 *-719-028-43 D1002 EL1Z   CN602 *1-580-876-00 PIN, CONNECTOR (SMM PITCH) 3P CN603 *1-580-8766-00 PIN, CONNECTOR (SMM PITCH) 4P   D853 *-719-302-43 D1002 EL1Z   D855 *-719-908-03 D1002 EPOS0   D856 *-719-912-24 D1002 EPOS   D857 *-719-908-04 D1002 EPOS0   D858 *-719-912-24 D1002 EPOS   D858 *-719-912-24	CN106	*1-770-747-11	CONNECTOR, BOARD TO BOARD 121 (KV-G25M)	P	D801	8-719-945-80	DIODE ERCO6-15S	
CNRSQ *1-508-766-00 PIN, CONNECTOR (SAM PITCH) 3P   CNRSQ *1-508-766-00 PIN, CONNECTOR (SAM PITCH) 4P   DESS   *-719-302-43 DIGOE ELIZ   DESS   *-719-302-43 DIGOE EGROB   DESS   DESS   *-719-408-60 DIGOE EGROB   DESS   DESS   *-719-408-60 DIGOE EGROB   DESS   *-719-408-60 DIGOE EGROB   DESS   *-719-408-60 DIGOE INVIZIONIZACIO   DESC   DESS   *-719-408-60 DIGOE INVIZIONIZACIO   DESC   DESS   *-719-408-60 DIGOE EN DIESS   *-719-408-60 DIGOE EN DIESS   DIGOE EGROB   DESS   DIGOE EGROB   DESS   DIGOE EGROB   DESS   DIGOE EGROB   DESS   DIGOE EGROB   DIGOE EGRO					D851	8-719-302-43	DIODE EL1Z	
DBS77	CN602 CN603	*1-508-765-00 *1-508-786-00	PIN, CONNECTOR (5MM PITCH) 31 PIN, CONNECTOR (5MM PITCH) 21	P	D853	8-719-302-43	DIODE EL1Z	
CTRIMERS   D860   8-719-911-19 DIODE ISSI19-25	CN851	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 41	P	D857	8-719-908-03	DIODE GPOSD	
CT55					D860	8-719-911-19	DIODE 1SS119-25	
D100E> D1208 8-719-109-81 D100E RD4.7ESB2 D002 8-719-101-9 D100E MA113-(TX) D004 8-719-109-84 D100E RD5.1ESB1 D005 8-719-041-97 D100E MA113-(TX) D004 8-719-109-84 D100E RD5.1ESB1 D101 8-719-109-84 D100E RD5.1ESB1 D102 8-719-109-84 D100E RD4.7ESB2 D103 8-719-109-81 D100E RD4.7ESB2 D103 8-719-109-81 D100E RD4.7ESB2 D103 8-719-109-11-19 D100E MA113-(TX) D301 8-719-041-97 D100E MA113-(TX) D302 8-719-041-97 D100E MA113-(TX) D303 8-719-041-97 D100E MA113-(TX) D304 8-719-041-97 D100E MA113-(TX) D305 8-719-041-97 D100E MA113-(TX) D306 8-719-041-97 D100E MA113-(TX) D306 8-719-041-97 D100E MA113-(TX) D307 8-719-041-97 D100E MA113-(TX) D308 8-719-041-97 D100E MA113-(TX) D309 8-719-041-97 D100E MA113-(TX) D300 8-719-041-97 D100E MA113-(TX) D301 8-719-041-97 D100E MA113-(TX) D302 8-719-041-97 D100E MA113-(TX) D303 8-719-041-97 D100E MA113-(TX) D304 8-719-01-19 D100E SSS119-25 D305 8-719-01-19 D100E RD2.2ESB2 D307 8-719-01-19 D100E RD2.2ESB2 D308 8-719-041-97 D100E MA13-(TX) D309 8-719-041-97 D100E MA13-(TX) D309 8-719-041-97 D100E MA13-(TX) D300 8-719-01-19 D100E RD2.2ESB2 D310 8-719-01-19 D100E MA13-(TX) D311 8-719-109-68 D100E RD2.2ESB2 D313 8-719-041-97 D100E MA13-(TX) D314 8-719-01-19 D100E MA13-(TX) D315 8-719-01-19 D100E MA13-(TX) D316 8-719-01-19 D100E MA13-(TX) D317 8-719-01-19 D100E MA13-(TX) D318 8-719-01-19 D100E MA13-(TX) D319 8-719-01-19 D100E MA13-(TX) D310 8-719-01-19 D100E MA13-(TX) D311 8-719-10-19 D100E RD2.2ESB2 D313 8-719-01-19 D100E RD2.2ESB2 D313 8-719-008-03 D100E CP08D D314 8-719-01-19 D100E RD2.2ESB2 D315 8-719-008-03 D100E CP08D D316 8-719-008-03 D100E CP08D D317 07 07 07 07 07 07 07 07 07 07 07 07 07	CT55 CT60	1-404-801-11 1-409-429-11	TRAP, CERAMIC TRAP, CERAMIC		D901 D1201 D1202	8-719-054-60 8-719-121-24 8-719-121-24	DIODE LN0220022G DIODE RD9. 1ESL DIODE RD9. 1ESL	
D001			<diode></diode>		D1208	8-719-121-24	DIODE RD9. 1ESL	
DOGS   8-719-041-97   DIODE MAILS-(TX)								
D101	D003 D004	8-719-041-97 8-719-109-84	DIODE MA113-(TX) DIODE RD5.1ESB1				<fuse></fuse>	
D103					F601 Z			(000 <b>00</b> 0000000000000000000000000000000
D301   8-719-041-97   DIODE MA113-(TX)   FB102   1-410-397-21   FERRITE BEAD   INDUCTOR 1. 1UH	D103 D251	8-719-914-42 8-719-911-19	DIODE DA204K DIODE 1SS119-25					
D304   8-719-041-97   D10DE MA113-(TX)   FB603   1-410-397-21   FERRITE BEAD INDUCTOR 1.1UH		8-719-041-97	DIODE MA113-(TX)		FB102	1-410-397-21 1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH	
FB610	D304	8-719-041-97	DIODE MA113-(TX)					
D310 8-719-041-97 D10DE MA113-(TX) D311 8-719-109-68 D10DE RD3. 6ESB1  D312 8-719-110-08 D10DE RD3. 2ESB2 D313 8-719-041-97 D10DE MA113-(TX) D314 8-719-041-97 D10DE MA113-(TX) D315 8-719-041-97 D10DE MA113-(TX) D316 8-719-908-03 D10DE GP08D D401 8-719-421-40 D10DE MA77 D402 8-719-911-19 D10DE 1SS119-25 D403 8-719-911-19 D10DE 1SS119-25 D513 8-719-109-84 D10DE RD5. 1ESB1 D551 8-719-908-03 D10DE GP08D D552 B-719-908-03 D10DE GP08D D553 B-719-908-03 D10DE GP08D D554 B-719-908-03 D10DE GP08D D555 B-719-908-03 D10DE GP08D D556 B-719-908-03 D10DE GP08D D568 B-719-908-03 D10DE GP08D D570 BA113-(TX) D570 B-720-00 COIL, AIR CORE (KV-G25M1 (RUSS)) D570 CIC.> D580 B-720-872-00 COIL, AIR CORE (KV-G25M1 (RUSS)) D570 B-719-100-88 D10DE RD5. 1ESB1 D570 B-719-100-88 D10DE MA113-(TX) D1001 8-752-866-21 IC CXP85116B-615S D1002 8-759-805-37 IC L78LR05D-MA D401 8-759-805-37 IC L78LR05D-MA D402 8-759-093-95 IC CAT24C04P D403 8-719-911-19 D10DE ISS119-25 D513 8-719-911-19 D10DE ISS119-25 D513 8-719-908-03 D10DE GP08D D501 B-719-911-19 D10DE ISS119-25 D510 B-719-908-03 D10DE GP08D D501 B-719-041-97 D10DE MA113-(TX) D501 B-720-866-21 IC CXP85116B-615S D601 B-752-866-21 IC CXP85116B-615S D602 B-759-805-37 IC L78LR05D-MA D601 B-752-866-21 IC CXP85116B-615S D602 B-759-805-37 IC L78LR05D-MA D603 B-759-903-95 IC CAT24C04P D604 B-759-903-95 IC CAT24C04P D605 B-759-903-95 IC C	D306 D307	8-719-911-19 8-719-911-19	DIODE 1SS119-25 DIODE 1SS119-25		FB611	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH	
D313	D310	8-719-041-97	DIODE MA113-(TX)		FB801	1-420-872-00		
D351 8-719-908-03 DIODE GPO8D IC002 8-759-805-37 IC L78LR05D-MA D401 8-719-421-40 DIODE MA77 IC003 8-759-093-95 IC CAT24C04P IC004 8-741-790-11 ELEMENT, RAY-CATCHER SBX1790-11 D402 8-719-911-19 DIODE 1SS119-25 IC102 8-759-157-40 IC UPC574J D403 8-719-911-19 DIODE 1SS119-25 D513 8-719-109-84 DIODE RD5. 1ESB1 IC203 8-759-336-30 IC TA8223K D551 8-719-908-03 DIODE GPO8D IC300 8-759-339-50 IC TDA8366N3D		8-719-041-97	7 DIODE MA113-(TX)					
D403 8-719-911-19 DIODE ISS119-25 D513 8-719-109-84 DIODE RD5. IESB1 IC203 8-759-336-30 IC TA8223K D551 8-719-908-03 DIODE GPO8D IC300 8-759-339-50 IC TDA8366N3D	D351 D401	8-719-908-03 8-719-421-40	B DIODE GPO8D DIODE MA77		IC002 IC003 IC004	8-759-805-37 8-759-093-95 8-741-790-11	IC L78LR05D-MA IC CAT24C04P ELEMENT, RAY-CATCHER SBX1790	-11
	D403 D513 D551	8-719-911-19 8-719-109-84 8-719-908-03	DIODE 1SS119-25 DIODE RD5. 1ESB1 DIODE GPO8D		IC203 IC300	8-759-336-30 8-759-339-50	IC TA8223K IC TDA8366N3D	

The components identified by shading and mark \( \frac{\Lambda}{\Lambda}\) are critical for safety. Replace only with part number specified.



7. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C609	1-126-600-11		100MF		160V	
C332	1-136-165-00			5%	50V	C610	1-126-942-61		1000MF	20%	16V	
C333		CERAMIC CHIP		10%	25V	C612	1-102-228-00		470PF		500V 50V	
C335 C337	1-102-973-00 1-124-916-11		100PF 22MF	5% 20%	50V 50V	C613	1-102-824-00	CERAMIC	470PF	5%	301	
C331	1-124-910-11	ELECT	ZZMF	20%	301	C614	1-124-557-11	ELECT	1000MF	20%	25V	
C338		CERAMIC CHIP		10%	16V	C615 Z	11-164-497-51	CERAMIC			400V	
C339		CERAMIC CHIP		5%	50V	C616	1-102-228-00		470PF		500V	
C340		CERAMIC CHIP		10%	50V 25V	C620	1-136-619-11 1-136-548-13		0.0016MF 0.1MF		2KV 250V	
C342 C344	1-104-004-11		10MF	10% 20%	50V	10041 4	D1-130-M0-13	A DA	V. 191	****	cour	0.8.9
0011	1 121 50. 11	212001	10112	20.0		C622	1-106-383-00		0.047MF	10%	200V	
C350	1-104-664-11		47MF	20%	16V	C623	1-124-120-11		220MF	20%	16V	
C351		CERAMIC CHIP		10%	25V	C624	1-126-942-61 1-102-074-00		1000MF 0.001MF	20%	16V 50V	
C352 C358		CERAMIC CHIP		10%	25V 25V	C625 C630 2	1-102-074-00 <b>1-164-497-51</b>	CERAMIC	470PF			
C359	1-104-665-11		100MF	20%	16V	CASOO E		CARGEOLO	*****			
						C631	1-161-830-00		0.0047MF	99%		
367	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C801	1-123-024-21		33MF	2.00	160V	
C368		CERAMIC CHIP		10%	25V 25V	C802 C804	1-106-367-00	MYLAK CERAMIC CHIP	0.01MF		200V 50V	
C369 C370		CERAMIC CHIP		10%	25V 25V	C804	1-102-244-00		220PF		500V	
C374	1-124-910-11		47MF	20%	50V	0000	1 102 211 00	Oblumito	22011	20.0		
						C806	1-124-903-11		1MF	20%	50V	
C375	1-124-910-11	ELECT	47MF	20%	50V	C807	1-136-540-11		0.82MF	5%	200V	
C402 C403	1-164-232-11 1-124-916-11	CERAMIC CHIP	0.01MF 22MF	10%	50V 50V	C808 C809	1-130-959-00 1-162-115-00		0.047MF 330PF	10%	400V 2KV	
C405		CERAMIC CHIP			50V 50V	C810	1-106-365-00		0.0082MF			
C406		CERAMIC CHIP			50V	0010	2 ,200 000 00		•			
						C811	1-162-318-11		0.001M		500V	
407		CERAMIC CHIP			50V	C812	1-136-617-11		0.019M	3%	2KV 160V	
C408 C409		CERAMIC CHIP		10% 5%	50V 50V	C816 C820	1-123-947-00 1-162-135-11		10MF 560PF	10%	2KV	
C410		CERAMIC CHIP		5%	50V	C821	1-106-391-12		0.1MF		200V	
C411		CERAMIC CHIP		5%	50V							
						C822	1-136-541-11		1.5MF	5%	200V	
C412		CERAMIC CHIP		5% 20%	50V	C823 C825	1-164-232-11	CERAMIC CHIP	0.01MF	10% 10%	50V 200V	
C413 C414	1-104-665-11	CERAMIC CHIP	100MF	20% 5%	16V 50V	C850	1-106-307-00		470MF	20%	25V	
C415		CERAMIC CHIP		-	50V	C852	1-104-574-11		0.0047MF		2KV	
C416		CERAMIC CHIP		5%	50V							
.415		OPPANTO OUT	10000	~w	FOV	C853	1-162-318-11	CERAMIC	0.001MF 470MF	10%	500V 25V	
A17 C418		CERAMIC CHIP CONDUCTOR, C		5%	50V	C854 C856	1-124-480-11 1-162-318-11	CERAMIC			500V	
C419		CERAMIC CHIP		5%	50V	C857	1-130-493-00			5%	50V	
C420	1-104-664-11	ELECT	47MF	20%	16V	C860	1-102-228-00		470PF	10%	500V	•
C422	1-216-295-00	CONDUCTOR, C	HIP (2012	?)				Dr. Dom	00100	004	OFOU	
C422	1 216 205 00	CONDITICATOR C	מזט	(201	2)	C861 C875	1-107-654-11 1-124-910-11		33MF 47MF	20%	250V 50V	
C423 C424		CONDUCTOR, C CONDUCTOR, C		(201 (201		C876	1-124-910-11	MYLAR	0.068MF		100V	
C425		CERAMIC CHIP			50V	C891	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	
C501	1-102-228-00		470PF	10%	500V	C898	1-106-379-12	MYLAR	0.033MF	10%	100V	
C523	1-104-665-11	ELECT	100MF	20%	16V	0001		CDD MAC CHILD	450DE	-w	COM	
C548	1 106 220 06	NOT AD	0.1MF	100	100V	C901 C902		CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V	
C551	1-106-220-00 1-126-968-11		100MF	20%	35V	C1201	1-103-155-00	ELECT	100MF	20%	16V	
C552	1-126-968-11		100MF	20%	35V	C1202		CERAMIC CHIP	0.1MF	10%	25V	
C553	1-163-019-00	CERAMIC CHIE	0.0068ME		50V	C1204	1-104-665-11	ELECT	100MF	20%	16V	•
C554	1-102-244-00	CERAMIC	220PF	10%	500V	C100F	1 164 004 11	CEDANTO CUITO	0.11/02	100	250	
C555	1-101-804-00	CEDANTO	10PF	5%	500V	C1205 C1210	1-164-004-11	CERAMIC CHIP	0.1MF	10% 20%	25V 16V	
C562	1-101-804-00		100MF	20%	16V	C1213	1-124-903-11		1MF	20%	50V	
601	1-162-318-1		0.001MF			C1214	1-124-907-11		10MF	20%	50V	
C602	1-161-830-00	CERAMIC	0.0047MI	99%	500V	C1217	1-104-665-11	ELECT	100MF	20%	16V	
C604	1-125-483-1	ELECT (BLOCK)	470MF	20%	400V	C1010	1 169 199 00	CEDANTE CUTD	190PF	5%	50V	
C608	1-104-332-1	CFRAMIC	470PF	10%	2KV	C1218 C1221		CERAMIC CHIP CERAMIC CHIP		270	25V	
0000	1-104-332-1.	CERMIT	4101 F	7040	LIN	1 01221	7-104-000-11	ODMINITO OILL	V. 1111		201	



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMAL
			4 077 - 5	1 /1 000	Docc	1 016 000 00	APPRAIS CLASS	4777 F.W	1 /2 OW
R021		METAL GLAZE		1/10W	R266		METAL GLAZE		1/10W
R027		METAL GLAZE		1/10W	R301	1-216-073-00 1-216-035-00			1/10W
R028		METAL GLAZE		1/10W	R302				1/10W
R029		METAL GLAZE		1/10W	R303	1-216-025-00	METAL GLAZE	100 5%	1/10W
R030	1-216-085-00	METAL GLAZE	33K 5%	1/10W	P204	1 216 025 00	METAL CLATE	100 50	1/10W
2001	. 010 040 00	ACCOUNT OF A TE	177 50	1 (100	R304	1-216-025-00			1/10W
R031		METAL GLAZE		1/10W	R305	1-216-025-00			1/10W
R033	1-216-049-00			1/10W	R306	1-216-025-00			1/10W
R035	1-216-049-00			1/10W	R307		METAL GLAZE		1/10W
R036	1-216-049-00			1/10\\	R308	1-210-033-00	METAL GLAZE	220 3%	1/10#
R038	1-216-033-00	METAL GLAZE	220 5%	1/10W	P200	1 216 022 00	METAL CLASE	220 50	1/10W
7040	. 016 000 00	MODAL CLASE	000 5%	1 /1 007	R309	1-216-033-00	METAL GLAZE		1/10W
R040	1-216-033-00			1/10W	R310		METAL GLAZE		1/10W
R041	1-216-025-00			1/10W	R311				1/10W
R042				1/10W	R312	1-216-025-00			1/10W
R043		METAL GLAZE		1/10W	R313	1-210-009-00	METAL GLAZE	47K 3%	1/10#
R044	1-216-073-00	METAL GLAZE	10K 5%	1/10\	D214	1 016 005 00	METAL CLASS	3.00 EW	1 /100
2016	. 015 005 00	AUTOMAT OF AZID	10077 50	1 /1 000	R314	1-216-025-00			1/10W
R046		METAL GLAZE		1/10W	R315	1-216-081-00			1/10W 1/10W
R047				1/10W	R316	1-210-000-00	METAL GLAZE		
R048				1/10W	D217	1 216 040 00	MOTAL CLATE		-G25M11)
R049				1/10W	R317	1-216-049-00	METAL GLAZE		1/10W
R050	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W	D010	1 216 000 00	METAL CLASE		-G25M11)
2021		MODELL OF ACT	4577 50	1 (1 000	R318	1-216-099-00	METAL GLAZE	120% 5%	1/10W
R051				1/10W	D210	1 216 100 00	METAL CLATE	2204 EW	1 /1 00
R052				1/10W	R319		METAL GLAZE		1/10W
R054	1-216-073-00	METAL GLAZE	10% 5%	1/10W	R320	1-216-083-00			1/10W 50% 1/10W
R057		METAL GLAZE			R321	1-216-689-11			
R059	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W	R322		METAL GLAZE		1/10\\ 1/10\\
Doca	1 016 022 00	MOTAL CLATE	220 58	1 /1 ()	R324	1-210-121-00	METAL GLAZE	1M 5%	1/10#
R067		METAL GLAZE		1/10W	D227	1 216 025 00	METAL CLATE	100 5%	1 /100
R068		METAL GLAZE		1/10W	R327	1-210-025-00	METAL GLAZE		1/10W -G25M11)
R071		METAL GLAZE		1/10W	D207	1 216 205 00	CONTRICTOR C		
R076		METAL GLAZE		1/10W	R327		CONDUCTOR, C		1/10W
R077	1-216-025-00	METAL GLAZE	100 5%	1/10W	R328	1-210-025-00	METAL GLAZE		-G25M11)
DOOG	1 010 070 00	METAL CLATE	10V F0	1 /1 /87	D220	1 216 205 00	CONDUCTOR, C		
R090		METAL GLAZE		1/10W	R328		METAL GLAZE		1/10W
R101		METAL GLAZE		1/10W	R329	1-210-025-00	METAL GLAZE		-G25M11)
R102		METAL GLAZE		1/10₩				(17.4-	-02JM11)
R103		METAL GLAZE		1/10W	P220	1 216 205 00	CONDUCTOR, C	(פוחפ) פזעי	KV C25V1)
R113	1-216-081-00	METAL GLAZE	22K 5%	1/10W	R329		METAL GLAZE		1/10W
D114	1 010 041 00	MOTAL CLATE	470 50	1 /1 (10)	R330 R332		METAL GLAZE		1/10W
R114		METAL GLAZE		1/10W 1/10W	R334		METAL GLAZE		1/10W
R115		METAL GLAZE		1/10W	N334	1-210-041-00	METAL GLAZE		-G25M11)
R116		METAL GLAZE			R335	1 216 073 00	METAL GLAZE		1/10W
R117	1-210-001-00	METAL GLAZE METAL GLAZE		5 1/10₩ 5 1/10₩	KSSS	1-210-073-00	METAL GLAZE	TOIL JA	1/101
R118	1-210-081-00	METAL GLAZE	22R 3/	1/10#	R336	1_216_077_00	METAL GLAZE	15K 5%	1/10W
D110	1 216 055 00	METAL GLAZE	1 97 59	5 1/10W	R338				1/10W
R119		METAL GLAZE		1/10W	R339		METAL GLAZE		1/10W
R120 R131		METAL OXIDE					METAL GLAZE		1/10W
		METAL GLAZE		1/10W	R341		METAL GLAZE		1/10W
R180 R181		METAL GLAZE	220 59		IWH1	1-210-045-00	METTE GENEL	111 3/1	1/ 1011
KIOI	1-210-033-00	MEINE GLAZE	220 37	1/1011	R351	1_216_001_00	METAL GLAZE	10 5%	1/10W
10100	1 216 022 0	METAL GLAZE	220 59	6 1/10W	R355		METAL GLAZE		1/10W
R182 R242		METAL GLAZE		1/10W	R356		METAL GLAZE		1/10W
R242 R243		METAL GLAZE  METAL GLAZE		6 1/10W	R403		METAL GLAZE		1/10W
R243 R244		) METAL GLAZE		6 1/10W	R406		METAL GLAZE		1/10W
		) METAL GLAZE		6 1/10W	1/400	1-210-000-00	MULTIN GUNDE	1. IN JA	4/ 40#
R245	1-210-001-00	meint GLAZE	5. JR 57	1/1011	R407	1-216-063-00	METAL GLAZE	3.9K 5%	1/10W
משפת	1.916 905 0	CONDUCTOR,	CHIP (2012)		R408		METAL GLAZE		1/10W
R250		CONDUCTOR,			R409		METAL GLAZE		1/10W
R251 R252	1-216-295-0		330 59	6 1/4W	R410		METAL GLAZE		1/10W
				6 1/10W	R410		METAL GLAZE		1/10W
R253		) METAL GLAZE	4.7 59		V411	1-210-001-00	MUINE GLACE	2.2K 3X	1/ 1/4
R254	1-249-389-1	CARDON	4.1 3	1/211	R412	1-216-069-00	METAL GLAZE	6.8K 59	1/10W
R265	1_216 061 0	) METAL GLAZE	3 3K 59	6 1/10W	R412		METAL GLAZE		1/10W
1/200	1-210-001-0	י שהיטר הרעקנ	J. JI. J.	4 1/ 101I	MAID	1-210-001-00	ناطيبان سييسي	J. J.	-/

The components identified by shading and mark  $\triangle$  are critical for safety.

Replace only with part number specified.



EF. NO.	PART NO.	DESCRIPTION REM	MARK	REF. NO.	PART NO.	DESCRIPTION	N		REMARK
IC354	8-759-251-56			Q208	8-729-901-01				
IC401	8-759-800-65	IC LA7910		Q210 Q301	8-729-900-98 8-729-900-53				
IC521	8-759-195-63			•					
IC551 IC601	8-759-801-98 8-749-010-84	IC STR-S6708		Q302	8-729-120-28	TRANSISTOR	2SC1623-L5L6 (K)	5 7-G25M11)	)
IC602	8-749-920-61	IC SE-135N PHOTO COUPLER PC123F2		Q303 Q402	8-729-120-28 8-729-922-66		2SC1623-L5L6		
				Q403	8-729-900-98				
IC801 IC1210	8-759-100-96 8-759-100-96	IC UPC4558G2 IC UPC4558G2		Q404	8-729-900-98	TRANSISTOR	DTC143TK		
				Q405	8-729-216-22	TRANSISTOR	2SA1162-G		
		<jack></jack>		Q406 Q407	8-729-216-22 8-729-216-22	TRANSISTOR	2SA1162-G		
		3,1010		Q408	8-729-120-28			i	
J251	1-770-785-11			Q409	8-729-216-22	TRANSISTOR	2SA1162-G		
J1201 J1202		JACK BLOCK, PIN 4P JACK BLOCK, PIN 2P		Q410	8-729-216-22	TRANSTETOR	2011100 0		
J 1202	1-033-230-11	JACK BLOCK, 1 IN 21		Q411	8-729-120-28				
				Q412	8-729-120-28				
		<chip conductor=""></chip>		Q413	8-729-900-98	TRANSISTOR	DTC143TK		
TD102	1 216 205 00	CONTUINTOD CUITO (2010)		Q414	8-729-120-28	TRANSISTOR	2SC1623-L5L6	i	
		CONDUCTOR, CHIP (2012) CONDUCTOR, CHIP (2012) (KV-G25M11)		Q415	8-729-900-98	TPANSTSTOP	DTC1/2TW		
		CONDUCTOR, CHIP (2012)		Q416	8-729-120-28				
				Q417	8-729-900-98				
		0077		Q418	8-729-900-98				
		<coil></coil>		Q561	8-729-200-17	TRANSISTOR	2SA1091-0		
L002	1-410-470-11			Q601	8-729-120-28	TRANSISTOR	2SC2412K		
L003 L101	1-408-411-00			Q801	8-729-140-96				
L301	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH INDUCTOR 33UH		Q802 Q821	8-729-016-32 8-729-018-99				
1401	1-410-498-11		ĺ	Q902	8-729-901-01				
L402	1-410-510-11		ļ	Q903	8-729-901-01	TRANSISTOR	DTC144EK		
L403	1-410-510-11			Q1201	8-729-120-28				
L404 L405	1-410-508-11 1-410-508-11			Q1202	8-729-120-28				
L406	1-410-507-11			Q1203 Q1204	8-729-120-28 8-729-216-22				
L407	1-410-511-11			Q1207	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
L408		LEAD, JUMPER (5.0MM)	1		8-729-120-28	TRANSISTOR	2SC1623-L5L6		
L409 L410		LEAD, JUMPER (5.0MM) LEAD, JUMPER (5.0MM)		Q1265	8-729-900-98				
L411		LEAD, JUMPER (5.0MM)		Q1513	8-729-120-28	1KANS1SIOK	25C16Z3-L5L6		
L802	1-412-527-11					<resistor></resistor>			
L804		COIL, DYNAMIC CONVERSION CHOKE		D00.					
L805 L807		COIL, HORIZONTAL LINEARITY COIL (WITH CORE)		R001 R002	1-216-065-00 1-216-065-00			1/10\	
L808	1-412-553-11		j	R002	1-216-065-00			6 1/10W 6 1/10W	
				R004	1-216-065-00	METAL GLAZE	4.7K 59	1/10W	
L821 L850	1-459-111-00 1-408-947-00	COIL, DRAM CORE (CDI) INDUCTOR 2.2MMH		R007	1-216-073-00			6 1/10W	
	_ 100 011 00			R008	1-216-049-00			1/10 <b>W</b>	
		TD ANC I CTOD.		R009	1-216-049-00			1/10W	
		<transistor></transistor>		R010 R012	1-216-049-00 1-216-017-00			1/10W 1/10W	
Q03O		TRANSISTOR 2SC1623-L5L6		R013	1-216-049-00			1/10W	
Q031		TRANSISTOR 2SA1162-G							
Q108 )109		TRANSISTOR 2SC1623-L5L6	- 1	R014	1-216-049-00			1/10W	
Q110		TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6	ĺ	R015 R018	1-216-043-91 1-216-033-00			1/10W	
	0 120 120-20	THE TOTOL BOOTOBO LODG		R019	1-216-101-00			1/10W 1/10W	
Q202		TRANSISTOR 2SA1162-G		R020	1-216-025-00			1/10W	
Q207	8-729-216-22	TRANSISTOR 2SA1162-G	I				(KV-	-G25M11)	





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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			RI	EMARi.
R910		METAL GLAZE		k 1/10				<transformer< td=""><td>&gt;</td><td></td><td></td><td></td></transformer<>	>			
R911 R913		METAL GLAZE METAL GLAZE		6 1/10 6 1/10		T601	Δ4-429-139-11	TRANSFORMER	CONVERGE	R (SR	T)	
R914	1-216-041-00	METAL GLAZE	470 59	1/10	₩	T605	<u> М.1-424-461-11</u>	TRANSFORMER.	LINE FIL	TER .		
R915	1-216-071-00	METAL GLAZE	8.2N 5	1/10	) <del>11</del>	T801	1-437-195-11 <b>A 1-453-190-11</b>					
R1201 R1202		METAL GLAZE METAL GLAZE		6 1/10 6 1/10					(NX-	2743/	/M3B)	
R1203	1-216-089-00	METAL GLAZE	47K 59	1/10	₩							
R1205 R1206		METAL GLAZE		6 1/10 6 1/10				<thermistor></thermistor>				
						THP601.	<b>∆1-810-961-11</b>	THERMISTOR.	Positive			
R1211 R1212	1-216-049-00	METAL GLAZE	1K 59	6 1/10 6 1/10	)W							
R1215 R1216		METAL GLAZE METAL GLAZE		6 1/10 6 1/10				<tuner></tuner>				
R1218		METAL GLAZE		6 1/10		TUIOI	<b>∆</b> .8–598–323–00	TUNER BT-AG4	01			
R1219		METAL GLAZE		1/10	)W							
R1220 R1221		METAL GLAZE METAL GLAZE		6 1/10 6 1/10				<crystal></crystal>				
R1227	1-216-689-11	METAL GLAZE	39K 5	1/10	W	X101	1-577-082-11	VIBRATOR, CE	RAMIC			
R1228	1-216-049-00	METAL GLAZE	1K 59	1/10	OW .	X300 X358	1-404-835-31 1-567-505-11	COIL, IF	CRYSTAI			
R1229		METAL GLAZE		1/10		X443	1-567-504-11					
R1230 R1231		METAL GLAZE METAL GLAZE		% 1/10 % 1/10		******		******	*****	****	******	****
R1232	1-216-063-00	METAL GLAZE	3.9K 59	1/10	)W		* 1 1001 400 4	C DOLDD COL	DI DAD			
R1233	1-216-057-00	METAL GLAZE	2.2K 5	1/10	JW .		* A-1331-428-A	*********	PLEIE *****			
R1235 R1239	1-216-689-11 1-249-389-11	METAL GLAZE		% 1/10 % 1/4								
R1239		METAL GLAZE	100 5	8 1/10	)\	l		<capacitor></capacitor>				
R1241 R1243		METAL GLAZE METAL GLAZE		% 1/10 % 1/10		C701	1-162-114-00	CFRAMIC	0.0047MF	2KV		
						C702	1-102-074-00	CERAMIC	0.001MF	10%	50V	
R1245 R1246		METAL GLAZE METAL GLAZE		% 1/10 % 1/10		C704 C708	1-130-202-00 1-102-114-00		0.022MF 470PF	5% 10%	400V 50V	
R1247	1-216-041-00	METAL GLAZE	470 5	% 1/10	)W	C709	1-102-114-00		470PF	10%	50V	
R1248 R1249		METAL GLAZE METAL GLAZE		% 1/10 % 1/10		C710	1-102-114-00	CERAMIC	470PF	10%	50V	
						C712	1-101-361-00	CERAMIC	150PF	5%	50V	
R1513 R1514	1-216-073-00	METAL GLAZE METAL GLAZE		% 1/10 % 1/10		C713 C714	1-102-971-00 1-101-361-00		82PF 150PF	5% 5%	50V 50V	
R1515		METAL GLAZE		% 1/1		C716	1-124-122-11		100MF	20%	50V	
		<switch></switch>						<connector></connector>				
	<u>1 572 707 11</u>	SWITCH, PUSE SWITCH, LEVE				1	*1-508-766-00			ITCH)	4P	
S801 S901		SWITCH, PUSH				CN703	*1-564-509-11 1-695-915-11					
S902 S903		SWITCH, PUSH SWITCH, PUSH										
								<diode></diode>				
S904 S905		SWITCH, PUSH SWITCH, PUSH				D701	8-719-911-19	DIODE 1SS119	-25			
5500						D702	8-719-911-19	DIODE 1SS119	-25		•	
		<spark gap=""></spark>	4			D703 D704		DIODE 1SS119 DIODE 1SS119				
	1 510 400 11					D705		DIODE 1SS119				
SG801	1-519-422-11	GAP, SPAKK				D706	8-719-911-19	DIODE 1SS119	-25			
		<filter></filter>				D707		DIODE 1SS119 DIODE 1SS119				
						D708 D709	8-719-911-19	DIODE 1SS119	-25			
SWF401	1-760-771-11	FILTER, SURF	FACE WAVE			D710	8-719-911-19	DIODE 1SS119	-25			

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EF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			Ī	REMARK
R414	1_216_041_00	METAL GLAZE	470 59	1/10\	,	R617	1-215-924-00	METAL OVER	157	-N	Off	
R415				1/10W		R619	1-249-377-11		15K 0.47	5% 5%	3₩ 1./4₩	F
R416		METAL GLAZE		1/10		R621	1-211-748-11		5.6	5%	1/4\ 5\	F F
			520 00	1/ 101		R621	1-217-190-21		0.15	10%		F
R417	1-216-033-00	METAL GLAZE	220 5%	1/10\		R623	1-247-807-31		100	5%	1/4W	r
R418	1-216-045-00			1/10₩			1 211 001 01	CILLDON	100	0.0	1/411	
R419	1-216-049-00	METAL GLAZE		1/10W		R624	1-215-881-11	METAL OXIDE	15	5%	2₩	F
R420	1-216-039-00	METAL GLAZE		1/10W		R625	1-249-424-11		3.9K	5%	1/4W	•
R421	1-216-033-00	METAL GLAZE	220 5%	1/10W	'	R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
						R627	1-249-417-11	CARBON	1K	5%	1/4W	
R422	1-216-027-00			1/10W		R628	1-249-417-11	CARBON	1K	5%	1/4W	
R423	1-216-029-00			1/10W								
R424				1/10₩		R629	1-249-401-11		47	5%	1/4W	
R425 R426	1-216-039-00			1/10₩		R635	1-215-882-00	METAL OXIDE	22	5%	2₩	F
R420	1-216-029-00	METAL GLAZE	150 5%	1/10W		Door		100m17 0000m		•	25M11)	
R427	1-216-037-00	METAL CLAZE	330 5%	1/10W		R636	1-215-924-00			5%	3₩	F
R428	1-216-081-00			1/10W		R801 R802	1-215-920-11		3.3K	5%	3₩	F
R429	1-216-039-00			1/10W		KOU2	1-249-387-11	CARBON	3.3	<b>5%</b>	1/4₩	F
R430	1-216-033-00			1/10W		R804	1-216-049-00	METAL CLASE	1K	E0/	1 /1 00	
R431	1-216-081-00			1/10W		R805	1-216-081-00		33K		1/10W 1/10W	
				1/ 1011		R808	1-535-303-00			3.0	1/1011	
R432	1-216-041-00	METAL GLAZE	470 5%	1/10W		R809	1-247-756-11		2. 2K	5%	1/2W	F
R433	1-216-081-00	METAL GLAZE	22K 5%	1/10W		R811	1-216-346-00	METAL OXIDE	0.56	5%	1W	F.
R434	1-216-041-00	METAL GLAZE	470 5%	1/10W							2"	•
R435	1-216-041-00			1/10W		R812	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R436	1-216-081-00	METAL GLAZE	22K 5%	1/10W		R816	1-249-430-11	CARBON	12K	5%	1/4W	
D40#	. 010 001 00	AMMAZ OZ LOD				R820	1-216-053-00		1.5K	5%	1/10W	
R437 R440		METAL GLAZE		1/10W		R821	1-215-910-00			5%	3₩	F
R44 0	1-216-029-00 1-216-021-00			1/10W		R822	1-216-429-00	METAL OXIDE	270	5%	1 <b>W</b>	F
R521		METAL GLAZE	00 5%	1/10W 1/10W		R823	1 247 756 11	CARRON	0.017	- N	1 (017	
R552		METAL GLAZE		1/10W		R825	1-247-756-11 1-249-392-11		2.2K	5%	1/2W	F F
		(KV-G25M1 (RU				R826	1-216-059-00		8. 2 2. 7K		1/4W	F
		(11. 050111 /10.	00// (141/,111-	ODOMIT,		R827	1-216-097-00				1/10\\ 1/10\\	
R553	1-216-295-00	CONDUCTOR, CI	HIP (2012)			R828	1-216-063-00		3.9K		1/10W	
		(KV-G25M1 (RU		G25M11)			1 410 000 00	MOTIO CLIED	0. JK	JN.	1/10#	
R555	1-249-429-11		10K 5%			R829	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R556		METAL GLAZE		1/10W		R831	1-216-426-11			5%	1W	F
R557		METAL GLAZE		1/10W		R832	1-216-057-00		2.2K	5%	1/10W	
R56O	1-216-295-00	CONDUCTOR, C	HIP (2012)		- 1	R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R561	1 240 421 11	CADDON	0-0V FN	1 (4)		R851	1-249-382-11	CARBON	1.2	5%	1/4₩	F
R562	1-249-421-11 1-249-420-11		2+: 2K 5% 1. 8K 5%	1/4W 1/4W		DOEO	1 040 000 11	CARRON	. **			_
R563	1-247-885-00		180K 5%	1/4W	- 1	R852 R853	1-249-923-11 1-249-377-11	CARBON	1K	5%	1/4₩	F
R564	1-216-091-00			1/10W		R854	1-249-377-11		0.47	5%	1/4W .	
R565		METAL GLAZE		1/10₩		R855	1-202-818-00	SOLID	0.47 1K		1/4W	F
_			J UN	-/ -/ 1	-	R856	1-249-425-11		4.7K		1/2W 1/4W	
R566	1-216-065-00	METAL GLAZE	4.7K 5%	1/10W						O.K	1/ 11	
R569	1-247-883-00	CARBON		1/4₩	İ	R857	1-249-438-11	CARBON	56K	5%	1/4W	
R57O		CONDUCTOR, CI				R858	1-216-370-11	METAL OXIDE		5%	2W	FZ
		(KV-G25M1 (RUS	S)/(HK), KV-	G25M11)		R860	1-247-887-00		220K	5%	1/4W	
R603	1-249-416-11		820 5%			R881	1-216-043-91		560	5%	1/10W	
R604	1-249-416-11	CARBON	820 5%	1/4W	F	R882	1-216-059-00	METAL GLAZE	2.7K	5%	1/10₩	
R606	1 215 015 11	METAL OVIDE	470 FW	200	_	D000						
R608		METAL OXIDE LEAD, JUMPER		3₩	F	R883	1-216-121-00	METAL GLAZE	1M		1/10W	_
R609	1-249-381-11		(5.0mm) 1 5%	1/4W		R895 R898	1-216-348-00 1-249-421-11	METAL UXIDE		5%	1W	F
R61O		METAL OXIDE		3W	F	R902	1-216-065-00	METAL CLAZE	2.2K		1/4W	
R611	1-202-933-61			6 1/2\	F	R904	1-216-065-00				1/10W 1/10W	
				/ -//	٠	1001	1 210 000-00	muinu dinas	7. /IL	J.0	1/10#	
R612	1-249-377-11	CARBON	0.47 5%	1/4W	F	R905	1-216-049-00	METAL GLAZE	1K .	5%	1/10W	
3613	1-249-377-11		0.47 5%	1/4W	F	R906	1-216-049-00	METAL GLAZE	1K		1/10W	
R614			22K 5%	1₩	F	R907	1-216-055-00	METAL GLAZE	1.8K		1/10W	
R615	1-249-389-11		4.7 5%	1/4W		R908	1-216-055-00	METAL GLAZE	1.8K		1/10W	
R616 A	1-218-265-91	METAL	8.24 5%	17		R909	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	





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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REM	<u>IARI</u>
		<transformer></transformer>					<ic></ic>			
T1601 2 T1602 2	51-424-436-11 51-424-436-11	TRANSFORMER, LINE FILT	TER TER		IC01 IC02	8-759-324-28 8-759-298-63	IC P83C654 IC SAA5281ZP/E			
******	********	******	*****	******			<chip conductor=""></chip>			
	* A-1347-103-A	V1 BOARD, COMPLETE (K	V-G25M	11)	1002	1 216 205 00	CONDUCTOR, CHIP (	2012)		
		<capacitor></capacitor>			JR02 JR03 JR04 JR07 JR08	1-216-295-00 1-216-295-00 1-216-295-00	CONDUCTOR, CHIP (	2012) 2012) 2012)		
C01 C02	1-163-037-11 1-124-907-11	CERAMIC CHIP 0.022MF ELECT 10MF		25V 50V						
C03 C04 C05	1-163-037-11	CERAMIC CHIP 0.022MF CERAMIC CHIP 0.1MF	10%	25V 25V 50V	L01 L03	1-410-464-11 1-410-464-11				
C06 C07 C08 C09	1-163-009-11 1-163-097-00 1-164-004-11	CERAMIC CHIP 10PF CERAMIC CHIP 0.001MF CERAMIC CHIP 15PF CERAMIC CHIP 0.1MF	5% 10%	50V 50 25V	L03 L04 L05 L06	1-410-464-11 1-410-464-11 1-410-464-11	INDUCTOR 3.3U INDUCTOR 3.3U	TH TH		
C10		CERAMIC CHIP 0.1MF	10%	25V			<transistor></transistor>			
C11 C12 C13 C14 C15	1-164-004-11 1-163-009-11	CERAMIC CHIP 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.001MF CONDUCTOR, CHIP ELECT 33MF	16V 10% 10% (2012 20%	25V 50V ) 35V	Q01 Q02 Q03 Q04 Q05	8-729-900-53 8-729-120-28 8-729-120-28	TRANSISTOR 2SC162 TRANSISTOR DTC114 TRANSISTOR 2SC162 TRANSISTOR 2SC162 TRANSISTOR 2SA116	EK 23-L5L6 23-L5L6		
C16 C17 C19 C22 C23	1-164-004-11 1-124-907-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	20% 10% 10% 20% 25V	50V 25V 25V 50V	Q06 Q07 Q08 Q09	8-729-120-28 8-729-019-01 8-729-140-96	TRANSISTOR 2SC162 TRANSISTOR 2SD239 TRANSISTOR 2SD774 TRANSISTOR DTA114	23-L5L6 94-EF 1-34		
C25	1-124-907-11	ELECT 10MF ELECT 330MF	20% 20%	50V 16V			<resistor></resistor>			
C26 C27	1-124-119-00 1-104-665-11	ELECT 100MF	20%	16V	PO1	1 216 061 00	METAL GLAZE 3.3F	5 5%	1/10W	
C28 C29	1-163-099-00	CERAMIC CHIP 18PF CERAMIC CHIP 18PF	5% 5%	50V 50V 50V	R01 R02 R03 R04	1-216-057-00 1-216-085-00	) METAL GLAZE 3.31 ) METAL GLAZE 3.3K ) METAL GLAZE 100	( 5% 5%	1/10W 1/10W 1/10W	1
C30 C31	1-163-099-00 1-163-099-00	CERAMIC CHIP 18PF CERAMIC CHIP 18PF	5% 5%	50V 50V	R05		METAL GLAZE 2.21		1/10W	
		<connector></connector>			R06 R07 R08	1-216-025-00 1-216-025-00	METAL GLAZE 12K METAL GLAZE 100 METAL GLAZE 100	5% 5%	1/10W 1/10W 1/10W	
CN01	*1-770-748-11	CONNECTOR, BOARD TO	BOARD	12P	R09 R10		) METAL GLAZE 2.21 ) METAL GLAZE 27K		1/10W 1/10W	
		<diode></diode>			R11	1-216-069-00	METAL GLAZE 6.8	-	1/10W	
D001	8-719-105-51	DIODE RD3.6M-B1			R12 R13	1-216-061-00	) METAL GLAZE 2.21 ) METAL GLAZE 3.31	K 5%	1/10W 1/10W	
D03 D04	8-719-914-43 8-719-105-91	B DIODE DAN202K DIODE RD5.6M-B2			R16 R17		) METAL GLAZE 10K ) METAL GLAZE 4.7		1/10W 1/10W	
D05 D06	8-719-914-44	DIODE DAP202K B DIODE DAN202K <ferrite bead=""></ferrite>			R18 R19 R20 R21	1-216-049-00 1-216-049-00	O METAL GLAZE 2.73 O METAL GLAZE 1K O METAL GLAZE 1K O METAL GLAZE 4.73	5% 5% K 5%	1/10W 1/10W 1/10W 1/10W	
FB01	1_410_307_21	FERRITE BEAD INDUCTO	OR 1.10	H	R22	1-216-041-00	) METAL GLAZE 470		1/10 <b>W</b>	
rdvi	1-410-031-21	I I I I I I I I I I I I I I I I I I I			R24 R25 R26	1-216-025-00	O METAL GLAZE 100 O METAL GLAZE 100 O METAL GLAZE 1K	5%	1/10W 1/10W 1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

DESCRIPTION

F. NO. PART NO.



DESCRIPTION



REMARK

Jr. NO.	PART NO.	DESCRIPTION			K	MAKK	KEP. NO.	PART NO.	DESCRIPTION			<u> </u>	EMAKK
D711 D712 D716 D717	8-719-911-19 8-719-911-19 8-719-911-19 8-719-121-24	DIODE 1SS119- DIODE 1SS119-	-25 -25				R726 R727 R728 R729 R730	1-249-422-11 1-249-422-11 1-215-410-00 1-215-410-00 1-215-410-00	CARBON METAL METAL	2. 7K 2. 7K 360 360 360	5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
J701 - A	Ь 1-251-239-21	<jack> SOCKET, CRT  <coil></coil></jack>					R731 R732 R733 R734 R738	1-535-303-00 1-535-303-00 1-535-303-00 1-247-739-11 1-247-807-31	LEAD, JUMPER LEAD, JUMPER CARBON	(5. OMM)		1/2W 1/4W	
L701 L702 L703 L704 L705	1-410-667-31 1-535-303-00 1-408-609-41 1-535-303-00 1-408-609-41	INDUCTOR LEAD, JUMPER INDUCTOR LEAD, JUMPER	33UH				R739 R740 R747 R749 R751	1-247-807-31 1-247-807-31 1-216-489-11 1-216-490-11 1-215-926-00	CARBON METAL OXIDE METAL OXIDE	39K		1/4W 1/4W 3W 3W 3W	F F
L706 L707	1-535-303-00 1-408-609-41	LEAD, JUMPER INDUCTOR	(5.0MM) 33UH				R753 R755 R756 R757 R758	1-249-429-11 1-249-427-11 1-249-427-11 1-249-427-11 1-249-419-11	CARBON CARBON CARBON	10K 6. 8K 6. 8K 6. 8K 1. 5K	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q701 Q702 Q703 Q704	8-729-326-11 8-729-326-11 8-729-326-11 8-729-326-11	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2611 SC2611 SC2611 SC2611				R759 R760	1-249-419-11 1-249-419-11		1.5K 1.5K		1/4W 1/4W	F
Q705 Q706 Q707 Q708 Q709	8-729-326-11 8-729-326-11 8-729-200-17 8-729-200-17 8-729-200-17	TRANSISTOR 2: TRANSISTOR 2: TRANSISTOR 2:	SC2611 SA1091-0 SA1091-0				RV701	1-230-641-11	RES, ADJ, ME	TAL GLAZE	2. 2M	ſ	
Q710 Q711 Q712 Q714	8-729-119-78 8-729-119-78 8-729-119-78 8-729-255-12	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2	SC2785-HI SC2785-HI SC2785-HI	FE FE			******	* A-1241-190-A	F1 BOARD, CO	MPLETE (K			
		<resistor></resistor>						1-533-223-11	CLIP, FUSE				
R701 R702 R703 R705 R710	1-244-941-00 1-249-496-11 1-249-496-11 1-216-392-11 1-215-899-11	CARBON CARBON METAL OXIDE		5% 5%	1/2W 1/2W 1/2W 3W	न	C1501 A	\1-104-706-51	<capacitor></capacitor>	0.22MF	20%	250V	
R711 R712 R713 R714 R715	1-247-758-11 1-215-899-11 1-247-758-11	CARBON METAL OXIDE CARBON METAL OXIDE	3.3K 15K 3.3K	5% 5% 5% 5%	1/2W 2W 1/2W 2W 1/2W	F		* 1-580-843-11 * 1-580-843-11					
R716 R717 R718 R719 R720	1-249-899-11 1-249-405-11 1-249-899-11 1-215-487-00 1-249-417-11	CARBON CARBON CARBON METAL	100 100 100 560K 1K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	म	F1601 A	∑1-532-465-31°	<pre><fuse> PISE: TIME-L <resistor></resistor></fuse></pre>	AG (BET)	3 15	V 250V	
7721 2722 R723 R724 R725	1-215-491-00 1-249-923-11 1-215-489-00 1-249-417-11 1-249-422-11	CARBON METAL CARBON	820K 1K 680K 1K 2.7K	5% 1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	⊱R1601 A	\1-202-916-91	SILIO	5. <b>6</b> W	20%	1/2¶	

REMARK | REF. NO. PART NO.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.



REMARK

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION	
R27		METAL GLAZE		% 1/10W				REMOTE COMMANDER	
R28	1-216-025-00	METAL GLAZE	100 5	5% 1/10W				******	
R29	1-216-025-00	METAL GLAZE	100 5	% 1/10W	0		1-473-323-11	REMOTE COMMANDER	(RM-870)
R30	1-216-071-00	METAL GLAZE	8.2K 5	% 1/10W					
R31				% 1/10W					
	1-216-071-00			% 1/10W					
R33		METAL GLAZE		% 1/10W					
NOO	1-210-003-00	METAL GLAZE	4.7A J	/A 1/10#					
R34	1-216-065-00	METAL GLAZE	4.7K 5	% 1/10W					
R35		METAL GLAZE		% 1/10W					
R36		METAL GLAZE		% 1/10W					
R37		METAL GLAZE		% 1/10W					
R38	1-260-085-11			% 1/2W					
Roo	1-200-065-11	CARDON	00 3	1/211					
R41	1-216-063-00	METAL GLAZE	3.9K 5	% 1/10W					
R43		CONDUCTOR, C		-,					
R44		METAL GLAZE		% 1/10W					
R45		METAL GLAZE		% 1/10W					
R46		METAL GLAZE		% 1/10W					
1440	1-210-021-00	METAL GLADE	00 0	// 1/1011					
R47	1-216-021-00	METAL GLAZE	68 5	% 1/10W					
	1 210 021 00	WELLE CERES	00 0	,, 1, 10.					
		<crystal></crystal>							
X01	1-579-266-31	CRYSTAL VIBR	ATOR						
			***						
·/************************************									

### MISCELLANEOUS

1-544-453-21 SPEAKER (2CM)

1-504-305-11 SPEAKER (5X12CM)

1-044-005-11 STEARCH (OXIZER)
A 8-431-404-11 DEPOCUTION XURE YEZGAXA
A 1-463-614-11 COIL DEMACRETIZATION
A 1-524-062-22 DEMI-TOWN (WITH CONNEC

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ACCESSORIES AND PACKING MATERIALS

3-800-141-21 MANUAL, INSTRUCTION (KV-G25M1 (ME) 3-800-141-41 MANUAL, INSTRUCTION (KV-G25M1 (HK) /M11) 3-800-141-51 MANUAL, INSTRUCTION (KV-G25M1 (RUSS))

\*4-029-168-01 BAG, PROTECTION (KV-G25M11) \*4-039-372-01 BAG, PROTECTION (KV-G25M1)

3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20) 4-392-003-11 BAND, HOLD

4-392-004-11 CLIP

A 1-569-008-11 ADAPTER CONVERSION 2P GEV\_GESTI (NE)/MI (NOSS))

\*4-047-806-01 CUSHION (UPPER) (ASSY) (KV-G25M1) \*4-047-807-01 CUSHION (LOWER) (ASSY) (KV-G25M1)

\*4-047-808-01 INDIVIDUAL CARTON (KV-G25M1)